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REPORT OF THE COMPTROLLER

For the year ended August 31, 1933



Vol. 113

WASHINGTON, D. C.

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# REPORT OF THE COMPTROLLER

October 12, 1933.

THE BOARD OF TRUSTEES OF THE GEORGE WASHINGTON UNIVERSITY:

GENTLEMEN: I have the honor to submit herewith a report, verified by R. G. Rankin and Company, Certified Public Accountants, showing in detail the financial operations of The University for the fiscal year ended August 31, 1933, and exhibiting the state of the Trust Funds, as required by the By-Laws of The University.

The Total Net Resources of The University as at August 31, 1933, were \$3,785,625.82, a gain for the year of \$81,913.86 as shown in the Summary of Assets and Liabilities which forms a part of this letter.

Endowment and Trust Funds were increased \$45,594.08 during the year as follows:

	Increase	Decrease	
1923-24 Campaign Fund.....	\$25.00		
Scottish Rite Endowment Fund.....	50,000.00		
Trustees Fund.....	655.00		New Fund
D. of C. D.A.R. Scholarship Fund.....	262.79		
Grace Ross Chamberlin Scholarship Fund....	500.00		
General Medical Endowment Fund.....	250.00		
Richard E. Pairo Fund.....	15,416.67		
Borden Fund.....	1,000.00		New Fund
John B. Larner Prize Fund.....	800.00		New Fund
Administrative Reserve Fund.....		\$26,881.96	
Engineering Club Room Fund.....	4.67		
Reserve for the Protection of Investments...	5,587.51		
Law Library Fund.....		1,350.01	
Student Loan Fund.....		2,838.27	
Freda Kuhlbank Hospital Fund.....	29.58		
Annie Kimmel Hospital Fund.....	101.88		
Student Union Furnishing Fund.....		385.00	
Pharmacy Loan Fund.....	50.00		New Fund
Duplicating Depreciation Fund.....	500.00		
General Building Fund.....	25.00		
Class of 1929 Womens Unit No. 3 Fund....	11.56		
Unit No. 3 Fund.....	1,829.66		
	<u>\$77,049.32</u>	<u>\$31,455.24</u>	
	31,455.24		
Net Increase.....	<u>\$45,594.08</u>		

The Reserve for the Protection of Investments was increased \$5,587.51 during the year. Of this amount \$5,000.00 was transferred to the Reserve from Consolidated and Executory Trust Funds Income, the balance being income earned by the fund, \$365.82, and profit on the sale of investments, \$221.69.

The Richard E. Pairo Fund was increased \$15,416.67 as follows:

Increases	
Payments on Principal of Real Estate Notes.....	\$20,070.87
Sale of Real Estate.....	1,077.45
Kansas City Power and Light Co. Stocks Appraised at....	3,120.00
	<u>\$24,268.32</u>

## REPORT OF THE COMPTROLLER

## Decreases

Kreuger and Toll Certificates written off.....	\$6,525.00	
Excess of Appraised Value over Cost of Investments Sold.....	2,326.65	
		8,851.65
		<u>\$15,416.67</u>

*Real Estate* is valued at \$1,988,874.38, there being no changes during the year.

*Notes Payable* secured by mortgages in the amount of \$398,230.00 were outstanding against General Funds of The University as at August 31, 1933. This amount is a reduction over the previous year of \$12,880.00 as shown by the following:

Note on 716 20th Street, due March 8, 1933—Paid.....	\$6,500.00
Note on 715 21st Street, due December 12, 1932—Paid.....	6,000.00
Payments on Principal of Note on 2026 G Street.....	380.00
	<u>\$12,880.00</u>

*Temporary Loans* due the Riggs National Bank were reduced \$50,000.00 during the year. As at August 31, 1933, there were loans payable in the amount of \$55,000.00 as follows:

Due October 1, 1933, Interest 5%.....	\$30,000.00
Due November 1, 1933, Interest 5%.....	25,000.00

The loan due October 1, 1933 has been paid.

*The Liability to Endowment Funds Income* has been extinguished by a final payment to the Powell Fund Income Account in the amount of \$2,272.00. This liability of General Funds has been liquidated at the rate of \$2,000.00 per year. The remaining liability of General Funds to Trust Accounts is the Liability for Impairment of Endowment Funds Principal in the amount of \$319,910.24. This liability is evidenced by a note given by The University secured by Medical and Hospital land and buildings.

*Notes Payable* against the Lewis Medical School Fund amount to \$45,000.00. The estate bequeathed by Dr. Samuel E. Lewis is valued at \$148,304.15, being made up of real estate valued at \$145,000.00 and other assets valued at \$3,304.15. To clear the estate and enable the executor to transfer the property to The University, the Board of Trustees authorized the placing of a \$45,000.00 mortgage on the property, leaving the net valuation of the Lewis Medical School Fund \$103,304.15.

*Laboratory Equipment and Furniture* are valued after depreciation at \$248,334.09, a decrease of \$7,139.29. This decrease is due to depreciation taken being in excess of additions during the year.

*Books in the Libraries* are valued after depreciation at \$89,610.85, an increase of \$537.80.

*Contributions* other than those reported under Trust Fund increases were received during the year as follows:

Columbian Women for Alumni Secretary.....	\$100.00
Gift of Professor Charles K. Swartz.....	10.00
Gift of Anna Pearl Cooper.....	6.62
Mrs. Chauncey M. Depew.....	6,000.00
Josiah Macy, Jr., Foundation.....	3,000.00
The National League of Masonic Clubs.....	7,000.00

\$16,116.62



# GENERAL ACCOUNTS

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*Accounts Receivable* from students amount to \$5,862.88 or .00617 percent of student charges at the close of the fiscal year. This amount will be reduced by collections on these delinquent accounts during the coming year.

*Cash Receipts and Payments* for the fiscal year are summarized as follows:

Cash Balance August 31, 1932.....	\$59,527.04
Cash Receipts.....	1,166,389.86
	<hr/>
Cash Payments.....	\$1,225,916.90
	1,218,828.14
	<hr/>
Cash Balance August 31, 1933.....	\$7,088.76

A statement in detail of Cash Receipts and Payments is shown in exhibit "C" of this report.

CHARLES W. HOLMES,  
Comptroller.

## COMPARATIVE SUMMARY OF ASSETS AND LIABILITIES, 1931-32 AND 1932-33

### Assets

	1931-32	1932-33	Increase	Decrease	Net Decrease
Cash, General Funds ...	\$ 64,617.04	\$ 13,178.76		\$52,438.28	
Cash, Endowment Income Endowment and Trust	12,859.03	19,248.18	\$ 6,389.15		
Fund Assets	2,087,991.38	2,133,585.46	45,594.08		
Endowment Income Assets	27,553.76	27,570.00	16.24		
Real Estate, exclusive of Endowment Funds.....	1,988,874.38	1,988,874.38			
Library Books.....	89,073.05	89,610.85	537.80		
Equipment.....	255,473.38	248,334.09		7,139.29	
Perpetual Insurance De- posits.....	1,406.25	1,406.25			
Advanced to University Store.....	6,696.62	6,696.62			
Advanced to Duplicating Bureau.....	1,468.31	1,468.31			
Notes Receivable.....	36,400.00	36,400.00			
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	\$4,572,413.20	\$4,565,372.90	\$ 52,537.27	\$59,577.57	\$ 7,040.30

### Liabilities

	1931-32	1932-33	Increase	Decrease	Net Decrease
Trust Notes Payable ...	\$ 411,110.00	\$ 398,230.00		\$12,880.00	
Temporary Loans Payable.	105,000.00	55,000.00		50,000.00	
Prepaid Tuition.....	10,338.17	6,050.67		4,287.50	
Liability to Endowment Funds.....	322,182.24	319,910.24		2,272.00	
Reserved for Specific Pur- poses.....	20,070.83			20,070.83	
Deferred Income.....		556.17	\$ 556.17		
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	\$ 868,701.24	\$ 779,747.08	\$ 556.17	\$89,510.33	\$88,954.16
Total Net Resources .....	\$3,703,711.96	\$3,785,625.82			
Increase in Net Resources 1932-33.....	81,913.86				
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	\$3,785,625.82	\$3,785,625.82			

October 6, 1933.

## AUDIT CERTIFICATE

We have examined the accounts and records of THE GEORGE WASHINGTON UNIVERSITY relating to the Trust Funds, General Funds and the Third Division for the year ended August 31, 1933, and herewith submit the following comments in connection with the annexed report of the Comptroller:

Cash was verified by actual count and by certificates from the depositories. The amount of \$7,088.76 shown as General Fund Cash on the balance sheet, per exhibit "A", is comprised of the following:

Cash on Deposit.....	\$6,201.34
Advances from General Funds for expenditures of the University Hospital.....	887.42
Total.....	<u>\$7,088.76</u>

Investments in stocks, bonds and trust notes receivable were verified by inspection or confirmed by correspondence with the holders thereof. Securities are stated at values as shown by the accounts of the University. Additions to plant assets were tested and found to be proper charges thereto. Trust notes payable were confirmed directly with the holders thereof. All other balance sheet accounts are stated in accordance with the accounts of the University.

We hereby certify that, in our opinion, the annexed balance sheet of Trust Funds and General Funds, and the balance sheet of The Third Division, as compiled by the Comptroller from the accounts of the University, subject to the foregoing comments, reflect the true financial condition of such Funds and Division of the George Washington University as at August 31, 1933, and that the relative income and expense accounts show the operating results for the year ended on that date.

Respectfully submitted,

R. G. RANKIN & Co.,  
Certified Public Accountants.



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GENERAL ACCOUNTS

RECAPITULATION OF THE PROCEEDINGS

GENERAL ACCOUNTS

GENERAL ACCOUNTS



EXHIBIT "A"  
THE GEORGE WASHINGTON UNIVERSITY  
BALANCE SHEET—AUGUST 31, 1933

GENERAL ACCOUNTS

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General Accounts

Assets		Liabilities	
Cash:		Prepaid Tuition.....	\$ 6,050.67
On Deposit.....	\$ 7,088.76	Loans Payable—Riggs National Bank.....	\$5,000.00
Petty Cash Funds.....	5,090.00	Deferred Income.....	556.17
Notes Receivable—American Pharmaceutical Association, 5½% due January 19, 1936.....	\$16,400.00	Trust Notes Payable, Schedule No. 3.....	\$98,490.00
Advanced to Duplicating Bureau.....	1,468.11	Liability to Endowment Funds, Principal Secured by Deed of Trust dated December 1, 1910 on Medical and Hospital Lands and Buildings, 1335-39 and 1341 H Street, N. W. ....	319,010.24
Loan Account—University Store.....	6,696.62	Surplus—Exhibit "D".....	1,605,222.18
Withdrawal Value of Perpetual Insurance.....	1,406.25		<u>\$2,384,960.26</u>
Plant Assets:			
Land, Educational and Miscellaneous Buildings, Schedule No. 1.....	\$1,988,874.38		
Equipment, Schedule No. 2.....	248,334.00		
Library Books, Schedule No. 2.....	89,610.85		
	<u>2,326,819.32</u>		
	<u>\$2,184,960.26</u>		

Trust Accounts

Investments:		Funds	
General Endowment Funds, Schedule No. 1.....	\$2,100,762.89	General Endowment Funds, Schedule No. 23.....	\$2,460,000.25
Deduct Trust Notes Payable—Lewins Properties.....	45,000.00		
	<u>\$2,055,762.89</u>		
Cash on Deposit Awaiting Investment.....	4,237.36		
	<u>\$2,060,000.25</u>		
Executory Trust Funds—Schedule No. 26, \$ Cash on Deposit Awaiting Investment.....	59,901.75	Executory Trust Funds, Schedule No. 24.....	73,585.21
	13,681.46		
Unexpended Income—Specific Endow- ment Funds.....			
\$25,000 par value Pittsburgh and West Virginia Railway Co. 4½% First Mortgage Gold Bonds, due 1959 \$ \$4,000 United States of America Cer- tificates of Indebtedness TD-2, due December 15, 1933.....	23,500.00	Unexpended Income, Specific Endowment Funds, Sched- ule No. 27.....	46,818.18
	<u>4,070.00</u>		
Cash on Deposit.....	\$ 27,570.00		
	19,248.18		
	<u>46,818.18</u>		
	<u>\$2,180,403.64</u>		

## REPORT OF THE COMPTROLLER

## EXHIBIT "B"

THE GEORGE WASHINGTON UNIVERSITY  
REVENUE ACCOUNT

For the Year Ended August 31, 1933

## INCOME

*Income from Schools:*

The Junior College  
Columbian College  
The School of Govern-  
ment  
The Division of Uni-  
versity and Extension  
Students

Net Income, Schedule No. 13 \$149,285.30

The Graduate Council.....	14	5,412.66
The Law School.....	16	37,722.33
The School of Engineering...	17	12,888.82
The School of Education...	19	3,951.65
The Division of Library Sci- ence.....	20	8,274.03
The Summer Sessions.....	22	972.58

Total Income from Schools..... \$218,507.37

*Deduct:*

The School of Medicine Net Expense, Schedule No. 15	15	\$48,517.98
The School of Pharmacy...	18	2,030.77
The Division of Fine Arts..	21	10,848.92

61,397.67

Net Income from Schools..... \$157,109.70

*Other Income:*

Fees—Previous Years.....	1,326.23
University Fees.....	80,748.50
Graduation Fees.....	15,145.00
Junior Certificates.....	2,218.00
Breakage Deposits.....	2,317.76
Binding of Theses.....	104.00
Prizes.....	245.00
Endowment Funds Income	
For General Purposes.....	\$9,469.97
For Specific Purposes.....	15,000.00
Interest Earned on Bank Deposits.....	24,469.97
Interest Earned on Notes Receivable.....	624.85
Discount Received.....	2,001.98
Rent of Fraternity Rooms.....	2,269.76
Reappropriations.....	1,752.50
Contributions and Donations.....	1,295.20
Rent Income—Sherman Avenue Property.....	110.00
	938.77



## GENERAL ACCOUNTS

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*Other Income—Continued.*

Rent of Corcoran Hall.....	160.00
Rent of Stockton Hall.....	10.00
College Entrance Examinations.....	50.00
Phone Tolls.....	56.88
Duplicate Diploma.....	5.00
Miscellaneous.....	1.32

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\$292,960.42

## EXPENSE

General Administration.....	Schedule No. 4	\$89,539.40
Comptroller's Department.....	5	50,840.32
Office of The Director of Admissions.....	6	14,083.53
Office of The Registrar.....	7	17,053.85
University Libraries.....	8	15,132.86
Personnel Department.....	9	5,346.14
Health Administration.....	10	8,803.60
Physical Education for Women.....	11	12,509.08
Physical Education for Men.....	12	17,383.07
Sherman Avenue Property.....		959.78
Prizes.....		305.00
College Entrance Board.....		50.00
Aeronautics Research.....		17.19

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232,023.82

Net Income Transferred to Surplus Account—Exhibit "D"...

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\$60,936.60

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THE GEORGE WASHINGTON UNIVERSITY  
STATEMENT OF CASH RECEIPTS AND PAYMENTS

For the Year Ended August 31, 1933

<i>Receipts</i>		<i>Payments</i>	
<b>Student Fees</b>		<b>Departmental Expense</b>	
By Divisions of Instruction:		By Divisions of Instruction:	
The Junior College	\$384,331 30	The Junior College	
Columbian College	89,679 03	Columbian College	
The School of Government	9,597 00	The School of Government	
The Division of University and Extension Students		The Division of University and Extension Students	\$310,545.63
The Graduate Council	51,964 43	The Graduate Council	1,578 50
The School of Medicine	8,991 16	The School of Medicine	188,168 53
The Law School	133,354 28	The Law School	78,018 11
The School of Engineering	116,601 04	The School of Engineering	4,971 48
The School of Pharmacy	52,960 30	The School of Pharmacy	8,374 30
The School of Education	5,083 23	The School of Education	32,621 79
The Division of Library Science	36,051 44	The Division of Library Science	6,645 95
The Division of Fine Arts	14,929 08	The Division of Fine Arts	17,238 99
The Summer Sessions	6,439 07	The Summer Sessions	43,329 11
Other Student Fees	44,301 60		
University Fees—General	\$ 76,532 50	Refunds of Sundry Fees	\$ 750,971 09
University Fees—Summer Sessions	4,452 00	University Fees—General	128 00
Graduation Fees	15,845 00	University Fees—Summer Sessions	8 00
Junior Certificate Fees	2,318 00	Graduation Fees	386 00
Breakfare Deposits	14,747 94	Junior Certificate Fees	30 00
Bonding of Thieves	104 00	Breakfare Deposits	12,430 22
Tuition—Old Accounts	2,296 86	Tuition—Old Accounts	970 63
Prepaid Tuition	115,786 34		
	5,877 67	General Administration	13,936 85
		Comptroller's Department	89,539 40
Endowment Funds Income		Office of the Director of Admissions	50,840 32
For Specific Purposes		Office of The Registrar	14,083 53
Columbian College		University Libraries	17,053 85
The School of Government	\$ 9,534 32	Personal Department	15,132 86
The School of Medicine	41,709 00	Health Administration	5,146 14
The School of Engineering	3,551 77	Physical Education for Women	8,303 60
The School of Pharmacy	2,000 00	Physical Education for Men	12,509 08
Patrio Fund—Athletics	380 10	Prizes	17,383 07
	15,000 00	Expense of Sherman Avenue Property	305 00
For General Purposes	52,175 39	College Entrance Examinations	950 78
	9,469 97		50 00



## GENERAL ACCOUNTS

<b>Excessory Trust Funds Principal for:</b> Columbian College..... \$ 6,000.00 The School of Medicine..... 3,000.00 The School of Government..... 2,000.00 Reduction of Trust Notes Payable..... 6,000.00 Payment of Loans—Riggs National Bank..... 50,000.00		72,000 00		
<b>Rents Received:</b> Paternity Rooms..... \$ 1,752.50 Sherman Avenue Property..... 938.77		2,691.27		
<b>Interest Received:</b> On Bank Deposits..... \$ 624.85 On Notes Receivable..... 2,001.98		2,626.83		
Columbian Women for Alumni Secretary Gift of Professor Charles K. Swartz..... Gift of Anna Pearl Cooper..... Prizes..... Reappropriations..... Use of Corcoran Hall..... Use of Stockton Hall..... Phone Calls..... College Entrance Examinations..... Duplicate Diploma..... Temporary Loans—Riggs National Bank..... Refund of Assurances—D. of C..... Miscellaneous Receipts..... Discount Received.....		100 00 10 00 6 00 245 80 1,245 80 176 00 10 00 46 88 50 00 50 00 55,000 00 1,331 66 1 32 2,469.76		
<b>Total Cash Receipts</b> <b>Cash Balance August 31, 1932</b>		\$1,166,380.86 59,527.04		
		\$1,225,916.90		

## REPORT OF THE COMPTROLLER

## EXHIBIT "D"

THE GEORGE WASHINGTON UNIVERSITY  
ANALYSIS OF SURPLUS ACCOUNT

For the Year Ended August 31, 1933

Surplus—August 31, 1932.....		\$1,575,307.79
<i>Additions to Surplus:</i>		
<i>Executory Trust Funds for:</i>		
Reduction of Temporary Loans Payable.....	\$50,000.00	
Reduction of Trust Notes Payable.....	6,000.00	
Refund of Assessments by the District of Columbia.....	1,331.66	
Return of Amount Reserved from Surplus for Medical School Building and Equipment.....	1,004.19	
Net Income for the Year Ended August 31, 1933, Transferred from Revenue Account—Exhibit "B".....	60,936.60	
		<u>119,272.45</u>
		\$1,694,580.24
<i>Deductions from Surplus:</i>		
Transfer of Available Cash Balance, August 31, 1932 to the Administrative Reserve Fund....	\$29,118.04	
University Hospital Budgeted Income for Four Months Ended December 2, 1932.....	8,008.00	
Depreciation on Equipment and Books.....	34,240.47	
Deficit of Related Activities Carried in Third Division.....	17,991.55	
		<u>89,358.06</u>
Surplus—August 31, 1933—Exhibit "A".....		<u>\$1,605,222.18</u>



## GENERAL ACCOUNTS

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## SCHEDULE No. 1

## LAND, EDUCATIONAL AND MISCELLANEOUS BUILDINGS

August 31, 1933

Location	Square	Lot	Book Value
2009-11 G Street, N. W.	102	30 to 32	\$40,000 00
2015 G Street, N. W.	102	801	28,653 46
2017-27 G Street, N. W.	102	802	116,122.05
2024 G Street, N. W.	103	16	14,033.93
2026 G Street, N. W.	103	15	15,074.96
2033 G Street, N. W.	102	803 to 806	43,168 38
2100 G Street, N. W.	80	819	24,990 06
2101 G Street, N. W.	79	800-801	25,000 00
2102 G Street, N. W.	80	818	13,051.60
2010-12 H Street, N. W.	102	825-826	58,331 44
2014 H Street, N. W.	102	824	5,219 88
2016 H Street, N. W.	102	823	14,053 60
2020-22 H Street, N. W.	102	819-820	31,066 71
2024 H Street, N. W.	102	818	12,000 00
2026 H Street, N. W.	102	829	10,237 44
Mechanical Laboratory	102	815 to 817	43,667 49
700 Twentieth Street, N. W.	102	26	17,559 40
702 Twentieth Street, N. W.	102	25	14,555 10
704 Twentieth Street, N. W.	102	24	12,000 00
712 Twentieth Street, N. W.	102	42	14,295 10
714 Twentieth Street, N. W.	102	1	14,755 10
716 Twentieth Street, N. W.	102	40	13,805 35
718 Twentieth Street, N. W.	102	828	20,063.25
720 Twentieth Street, N. W.	102	44	279,325 93
713 Twenty-first Street, N. W.	102	807	12,050 10
714 Twenty-first Street, N. W.	79	46	40,354.20
715 Twenty-first Street, N. W.	102	808	12,065.75
725 Twenty-first Street, N. W.	102	43	327,481 92
1335-41 H Street, N. W.	250	33-34-804	616,415.00
Medical Research Building, Rear of			
1335-41 H Street, N. W.			39,159.71
1016 Thirteenth Street, N. W.	248	54 }	
1300 L Street, N. W.	248	53 }	22,500.00
Sherman Avenue Property	2864	800-801-806-809	37,815 47
Total Real Estate, General Funds— Exhibit "A"			\$1,988,874 38

## REPORT OF THE COMPTROLLER

## SCHEDULE No. 2

## EQUIPMENT AND LIBRARY BOOKS

August 31, 1933

	Equipment	Library Books
Arts and Sciences.....	\$166,592.95	\$66,758.19
The Law School.....	8,777.63	47,896.04
The School of Medicine.....	118,070.91	12,524.81
The School of Pharmacy.....	9,476.87	1,008.38
The Division of Fine Arts.....	865.65	
The University Library.....	1,043.96	
Mechanical Laboratory.....	8,780.39	
Administrative.....	42,711.67	
Gymnasium.....	6,538.61	
The University Hospital.....	45,512.82	
Student Band.....	2,266.48	
Deduct Depreciation.....	\$410,637.94	\$128,187.42
	162,303.85	38,576.57
Total—Exhibit "A".....	\$248,334.09	\$89,610.85

## SCHEDULE No. 3

## TRUST NOTES PAYABLE—GENERAL FUNDS

August 31, 1933

Payee	Security	Interest Rate %	Date of Maturity	Principal Amount
The Washington Loan & Trust Co.....	Corcoran Hall	5½	12-14-35	\$220,000.00
American Security & Trust Co.....	Stockton Hall	5½	12-17-34	150,000.00
American Security & Trust Co.....	2009-11 G St.	5½	1-11-35	12,000.00
Metropolitan Life Insurance Co.....	2026 G St.	6	2-1-42	4,730.00
American Security & Trust Co.....	Sherman Ave.	5½	11-2-33	4,700.00
American Security & Trust Co.....	Sherman Ave.	6	6-7-36	4,000.00
American Security & Trust Co.....	Sherman Ave.	6	6-2-34	2,800.00
Total—Exhibit "A".....				\$398,230.00



# GENERAL ACCOUNTS

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## SCHEDULE No. 4

### EXPENSE—GENERAL ADMINISTRATION

#### Operation:

Salaries.....	\$36,590.70
Office Expense.....	422.10
Counsel Fees.....	250.00
Stationery, Printing and Postage.....	1,872.62
Travel.....	2,090.34
Press Clippings.....	271.46
Subscriptions and Memberships.....	406.05
Classical School at Athens.....	40.00
Alumni Expense.....	1,042.92
Administration Entertainment.....	1,383.35
Emergency and Lands.....	4,652.86
Scholarships.....	6,492.00
Annual Payment to University Loan Fund.....	1,000.00
Insurance.....	250.00
University Grant to Third Division.....	32,775.00

\$89,539.40

## SCHEDULE No. 5

### EXPENSE—COMPTROLLER'S DEPARTMENT

#### Operation:

Salaries.....	\$31,578.25
Office Expense.....	3,078.47
Auditing.....	550.00
Surety Bonds.....	315.50
Telephones.....	4,220.90
Advertising.....	1,186.40
Commencement.....	9,910.80

\$50,840.32

## SCHEDULE No. 6

### EXPENSE—OFFICE OF THE DIRECTOR OF ADMISSIONS

#### Operation:

Salaries.....	\$7,040.00
Office Expense.....	729.91
Catalogues.....	5,946.44
Mailing Catalogues.....	367.18

\$14,083.53

## SCHEDULE No. 7

### EXPENSE—OFFICE OF THE REGISTRAR

#### Operation:

Salaries.....	\$14,579.50
Office Expense.....	2,474.35

\$17,053.85

## REPORT OF THE COMPTROLLER

## SCHEDULE No. 8

## EXPENSE—UNIVERSITY LIBRARIES

## Operation:

Salaries.....	\$13,966.64
Office Expense.....	246.20

## Maintenance:

Binding—General.....	320.85
Replacements—General.....	61.22
Binding and Replacements—Law Library.....	448.10
Binding—Medical School Library.....	89.85

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\$15,132.86

## SCHEDULE No. 9

## EXPENSE—PERSONNEL DEPARTMENT

## Operation:

Salaries.....	\$5,034.00
Office Expense.....	199.81
Entertainment.....	73.02
First Aid.....	1.48

## Maintenance:

Laundry.....	37.83
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\$5,346.14

## SCHEDULE No. 10

## EXPENSE—HEALTH ADMINISTRATION

## Operation:

Salaries.....	\$3,600.00
Hospitalization.....	5,200.75
Medical and Surgical Services.....	2.85

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\$8,803.60

## SCHEDULE No. 11

## EXPENSE—PHYSICAL EDUCATION FOR WOMEN

## Operation:

Salaries.....	\$10,268.70
Office Expense.....	198.61
Sports.....	1,438.24
Transportation to Field.....	359.90

## Maintenance:

Laundry and Replacements.....	243.63
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\$12,509.08



## GENERAL ACCOUNTS

19

## SCHEDULE No. 12

## EXPENSE—PHYSICAL EDUCATION FOR MEN

## Operation:

Salaries.....	\$15,300 00
Office Expense.....	71 77
Intramural Activities.....	1,610 54

## Maintenance:

Supplies.....	99 97
Repairs and Replacements.....	100 79
Renovation and Laundry.....	200.00

\$17,383 07

## SCHEDULE No. 13

## THE JUNIOR COLLEGE

## COLUMBIAN COLLEGE

## THE SCHOOL OF GOVERNMENT

## THE DIVISION OF UNIVERSITY AND EXTENSION STUDENTS

## INCOME AND EXPENSE

For the Year Ended August 31, 1933

## Income

	Junior	Columbian	Government	University and Extension	Total
Student Fees.....	\$284,331.30	\$89,693.03	\$9,597.00	\$51,964.43	\$435,585.76
Endowment Income:					
Sanders Fellowship Fund.....		9,364.00			9,364.00
Elton Professorship Fund.....		170.32			170.32
Scottish Rite Endowment Fund.....			21,700.00		21,700.00
Executory Trust Funds Principal:					
Depew Oratory Fund.....		6,000.00			6,000.00
National League of Masonic Clubs Fund.....			7,000.00		7,000.00
For Special Research in Physics.....		10.85			10.85
	<u>\$284,331.30</u>	<u>\$105,238.20</u>	<u>\$18,297.00</u>	<u>\$51,964.43</u>	<u>\$479,830.93</u>

## Administration:

## Operation:

Salaries.....	\$5,250.00
Office Expense.....	546.92
Proctors.....	139.50
Refunds to Students.....	3,523.73

## Maintenance:

Distributive Share.....	57,303.41
	<u>\$66,763.56</u>

## REPORT OF THE COMPTROLLER

## Instruction—Schedule No. 13A:

## Operation:

Salaries.....	\$253,961.90
Office Expense.....	727.16
Laboratory Supplies.....	8,916.64
Physics Research.....	10.85

Maintenance and Repairs..... 263,616.55  
165.52

330,545.63

Net Income Transferred to Revenue Account—Exhibit "B"

\$149,285.30

SCHEDULE No. 13A  
INSTRUCTIONAL EXPENSE  
For the Year Ended August 31, 1933

Department	Salaries	Office Expense	Laboratory Supplies	Research	Maintenance and Repairs
Botany .....	\$12,520.00	\$47.26			
Chemistry .....	24,690.00	59.67	\$502.79		\$ 80
Classical Languages and Literature.....	3,500.00		6,106.02		164.63
Economics .....	21,950.00	28.47			
English.....	33,844.00	58.56			
Geology and Geography .....	1,812.00	15.00			
Germanic Languages and Literature.....	8,600.00	14.50	116.90		
History.....	23,735.00	80.80			
Mathematics .....	23,480.00	26.70			
Philosophy.....	1,800.00	10.27			
Physics.....	15,139.00	40.00			
Political Science .....	14,850.00	34.28	662.66	\$10.85	
Psychology.....	10,680.00	20.00	122.93		
Public Speaking .....	10,360.00	48.59	27.27		
Romance Languages and Literature.....	20,180.00	60.80			
Sociology.....	9,321.00	143.94			
University and Extension .....	300.00				
Zoology.....	8,200.00	29.32	1,108.07		
	\$253,961.90	\$727.16	\$8,916.64	\$10.85	\$165.52

SCHEDULE No. 14  
THE GRADUATE COUNCIL  
INCOME AND EXPENSE  
For the Year Ended August 31, 1933

Student Fees..... *Income* \$8,991.16

Administration:..... *Expense*

## Operation:

Salaries.....	\$2,120.00
Office Expense.....	49.91
Refunds to Students.....	134.67
	\$2,304.58

## GENERAL ACCOUNTS

21

Maintenance:		
Distributive Share.....	1,173.92	
Instruction:		
Operation:		
Salaries—Assignments .....	100.00	
		3,578.50
Net Income Transferred to Revenue Account—Exhibit "B" .....		<u>\$5,412.66</u>

SCHEDULE No. 15  
THE SCHOOL OF MEDICINE  
INCOME AND EXPENSE  
For the Year Ended August 31, 1933

*Income*

Student Fees.....	\$133,519.45	
Endowment Income:		
Gardner Medical School Fund.....	\$200.00	
Lewis Medical School Fund.....	2,925.03	
Sharpe Medical School Fund.....	424.80	
General Medical Endowment Fund...	1.94	
		3,551.77
Executory Trust Funds Principal:		
Macy Medical Fund.....	2,519.33	
		<u>\$139,590.55</u>

*Expense*

Administration:		
Operation:		
Salaries.....	\$8,400.00	
Dues.....	151.00	
Office Expense.....	748.96	
Professional Reprints.....	370.44	
Students' Room Rent.....	460.00	
Refunds to Students.....	337.11	
Dean's Operating Fund.....	480.95	
		\$10,948.46
Maintenance—Distributive Share.....	\$17,529.54	
Repairs.....	5,113.32	
		22,642.86
Instruction—Schedule No. 15A:		
Operation:		
Salaries.....	\$138,370.66	
Laboratory Supplies.....	4,489.85	
Free X-Rays.....	20.00	
Special Anaesthetics.....	505.00	
Educational Research.....	11,131.70	
		154,517.21
		<u>188,108.53</u>
Net Expense transferred to Revenue Account—Exhibit "B" .....		<u>\$48,517.98</u>



## REPORT OF THE COMPTROLLER

SCHEDULE No. 15A  
EXPENSE—INSTRUCTION  
For the Year Ended August 31, 1933

Department	Salaries	Laboratory Supplies	Free X-Ray	Anaesthesia Fees	Educational Research
Anatomy	\$11,800.00	\$555.49			
Bacteriology, Hygiene and Pre- ventative Medicine	26,700.00	922.54			
Bio-Chemistry	20,314.00	765.23			
Dermatology and Syphilology	1,350.00				
Medicine	8,570.00				
Neurology	4,180.00	519.33			
Obstetrics and Gynecology	4,300.00				
Ophthalmology	1,450.00				
Oto-rhino-laryngology	2,100.00				
Pathology	9,596.66	701.93			
Pediatrics	2,350.00				
Pharmacology	10,000.00	527.17			
Physiology	14,100.00	498.16			
Psychiatry	1,950.00				
Radiology			\$20.00		
Surgery	7,350.00			\$505.00	
Urology	2,500.00				
Medical Research	0,160.00				\$11,191.70
	<u>\$118,370.66</u>	<u>\$4,489.85</u>	<u>\$20.00</u>	<u>\$505.00</u>	<u>\$11,191.70</u>

SCHEDULE No. 16  
THE LAW SCHOOL  
INCOME AND EXPENSE  
For the Year Ended August 31, 1933

Student Fees ..... *Income* ..... \$116,641.04

*Expense*

Administration:

Operation:

Salaries ..... \$3,430.00

Dean's Operating Fund ..... 186.64

Office Expense ..... 737.90

Proctors ..... 178.88

Refunds to Students ..... 322.66

Maintenance: ..... \$4,856.08

Distributive Share ..... 15,362.63

Instruction:

Operation:

Salaries ..... \$58,300.00

Office Expense ..... 400.00

..... 58,700.00

78,918.71

Net Income Transferred to Revenue Account—Exhibit "B" ..... \$37,722.33

## GENERAL ACCOUNTS

23

SCHEDULE No. 17  
THE SCHOOL OF ENGINEERING  
INCOME AND EXPENSE  
For the Year Ended August 31, 1933

*Income*

Student Fees .....	\$52,960.30	
Powell Fund Income .....	2,000.00	
	<hr/>	\$54,960.30

*Expense*

## Administration:

## Operation:

Salaries .....	\$1,950.00	
Office Expense .....	99.88	
Refunds to Students .....	158.98	
	<hr/>	\$2,208.86

## Maintenance:

Distributive Share .....	6,993.63	
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## Civil Engineering:

## Operation:

Salaries .....	\$14,745.00	
Laboratory Supplies .....	157.75	
	<hr/>	14,902.75

## Electrical Engineering:

## Operation:

Salaries .....	\$6,600.00	
Laboratory Supplies .....	190.37	
	<hr/>	6,790.37

## Mechanical Engineering:

## Operation:

Salaries .....	\$10,940.00	
Laboratory Supplies .....	235.87	
	<hr/>	11,175.87

42,071.48

Net Income Transferred to Revenue Account—Exhibit "B" .....	<hr/>	\$12,888.82
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SCHEDULE No. 18  
THE SCHOOL OF PHARMACY  
INCOME AND EXPENSE  
For the Year Ended August 31, 1933

*Income*

Student Fees .....	\$5,954.23	
Gibbs Pharmacy Fund Income .....	389.30	
	<hr/>	\$6,343.53

## REPORT OF THE COMPTROLLER

		<i>Expense</i>	
<b>Administration:</b>			
<b>Operation:</b>			
Salaries.....		\$200.00	
Office Expense.....		25.48	
Refunds to Students.....		3.00	
		<hr/>	\$228.48
<b>Maintenance:</b>			
Distributive Share.....		\$782.09	
Repairs.....		10.46	
		<hr/>	792.55
<b>Instruction:</b>			
<b>Operation:</b>			
Salaries.....		\$6,600.00	
Laboratory Supplies.....		753.27	
		<hr/>	7,353.27
		<hr/>	8,374.30
Net Expense Transferred to Revenue Account—Exhibit "B".....			\$2,030.77

SCHEDULE No. 19  
THE SCHOOL OF EDUCATION  
INCOME AND EXPENSE  
For the Year Ended August 31, 1933

		<i>Income</i>	
Student Fees.....			\$36,053.44
		<i>Expense</i>	
<b>Administration:</b>			
Operation:			
Salaries.....		\$1,460.00	
Office Expense.....		58.57	
Refunds to Students.....		234.67	
		<hr/>	\$1,753.24
<b>Maintenance:</b>			
Distributive Share.....			4,713.84
<b>Education:</b>			
Operation:			
Salaries.....		\$17,998.00	
Office Expense.....		99.17	
Scholarships—Supervising Teachers.....		456.00	
Laboratory Supplies.....		43.82	
		<hr/>	18,596.99
<b>Home Economics:</b>			
Operation:			
Salaries.....		\$6,600.00	
Laboratory Materials.....		391.90	
Office Expense.....		24.26	
		<hr/>	7,016.16



# GENERAL ACCOUNTS

25

## Maintenance:

Laboratory Maintenance..... 21.56

32,101.79

Net Income Transferred to Revenue Account—Exhibit "B"..... \$3,951.65

## SCHEDULE No. 20

### THE DIVISION OF LIBRARY SCIENCE INCOME AND EXPENSE

For the Year Ended August 31, 1933

Student Fees..... *Income* \$14,929.98

Administration: *Expense*

#### Operation:

Salaries..... \$200.00  
Office Expense..... 3.00  
Refunds to Students..... 27.00

\$230.00

#### Maintenance:

Distributive Share..... 1,958.38

#### Instruction:

##### Operation:

Salaries..... \$4,400.00  
Supplies..... 67.57

4,467.57

6,655.95

Net Income Transferred to Revenue Account—Exhibit "B"..... \$8,274.03

## SCHEDULE No. 21

### THE DIVISION OF FINE ARTS INCOME AND EXPENSE

For the Year Ended August 31, 1933

Student Fees..... *Income* \$6,439.07

Administration: *Expense*

#### Operation:

Salaries..... \$650.00  
Office Expense..... 74.17  
Refunds to Students..... 12.50

\$736.67

## REPORT OF THE COMPTROLLER

## Maintenance:

Distributive Share.....	\$844.11
Repairs to Equipment.....	22.71

866.82

## Architecture:

## Operation:

Salaries.....	\$9,550.00
Beaux Arts Design.....	699.50
Models.....	600.00
Express.....	35.00

10,884.50

## Arts:

## Operation:

Salaries.....	4,800.00
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17,287.99

Net Expense Transferred to Revenue Account—Exhibit "B" ..... \$10,848.92

## SCHEDULE No. 22

## THE SUMMER SESSIONS OF 1933

## INCOME AND EXPENSE

## Student Fees:

## Income

The Graduate Council.....	\$529.00
The Junior College.....	11,941.17
Columbian College.....	5,592.35
The School of Government.....	884.00
The School of Education.....	6,726.00
The Division of Library Science.....	703.00
The Division of Fine Arts.....	38.00
The Law School.....	8,116.00
The School of Engineering.....	1,133.17
The Division of University and Extension Students.....	8,639.00

\$44,301.69

## Administration:

## Expense

## Operation:

Salaries.....	\$2,220.00
Printing and Mimeographing.....	3,650.03
Office Expense.....	206.02
Postage.....	524.60
Social Fund.....	193.09
Refunds to Students.....	444.67
Special and Exigent Items—Salaries.....	836.50

Maintenance..... \$8,074.91  
3,825.00

# GENERAL ACCOUNTS

27

## The Junior College:

### Operation:

Salaries.....	\$12,937.00
Botany Laboratory.....	37.52
Chemistry Laboratory.....	318.51
Physics Laboratory.....	75.17
Zoology Laboratory.....	80.16

\$13,448.36

## Columbian College:

### Operation:

Salaries.....	\$3,842.00
Psychology Laboratory.....	35.32

3,877.32

## The School of Government:

### Operation:

Salaries.....	3,611.00
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## The School of Education:

### Operation:

Salaries.....	3,878.52
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## The Division of Library Science:

### Operation:

Salaries.....	680.00
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## The Division of Fine Arts:

### Operation:

Salaries.....	\$408.00
Models.....	35.00

443.00

## The Law School:

### Operation:

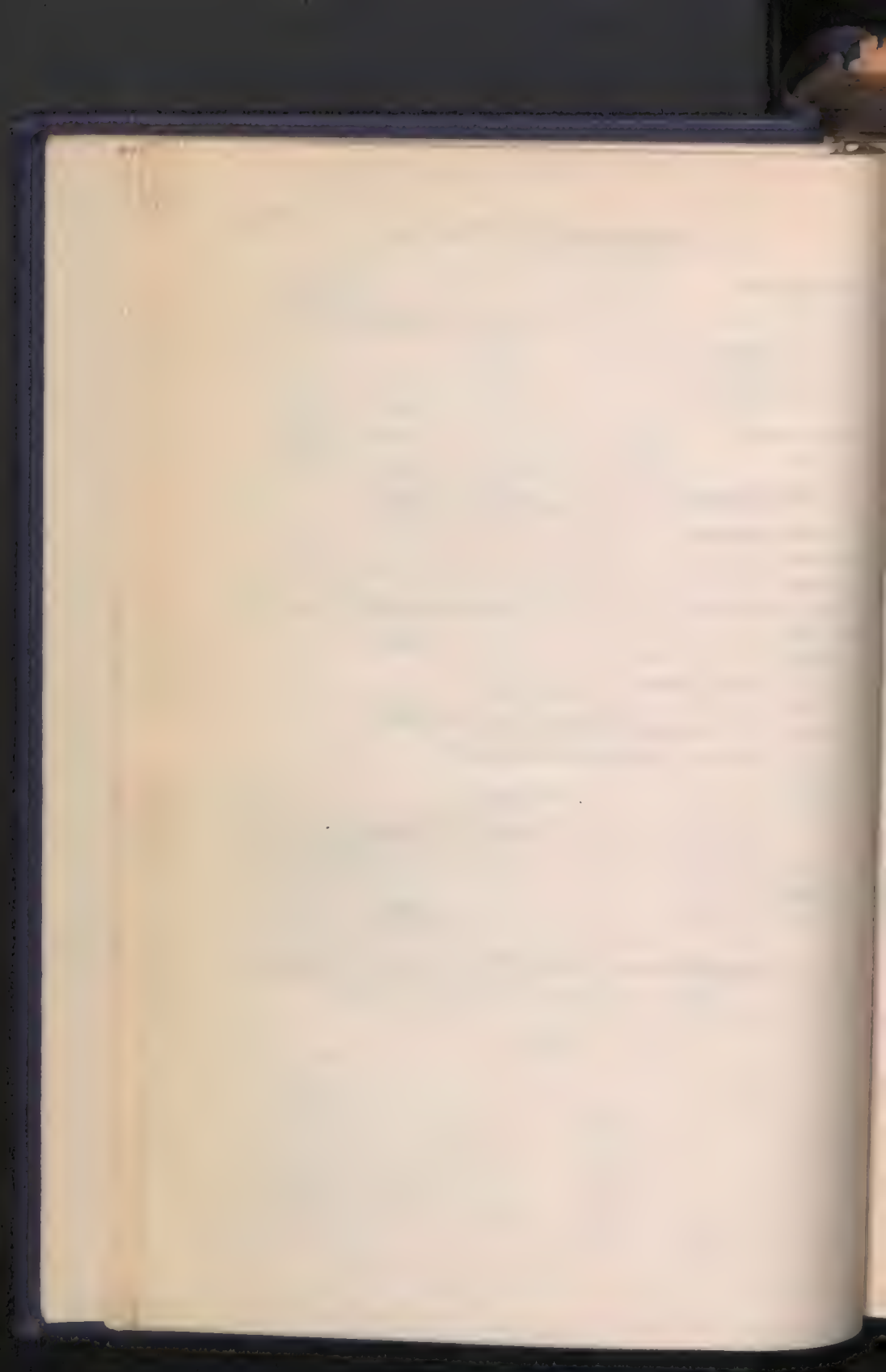
Salaries.....	5,491.00
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43,329.11

Net Income Transferred to Revenue Account—Exhibit "B".....

\$972.58





TRUST ACCOUNTS

## REPORT OF THE COMPTROLLER

## TRUST FUNDS

## SCHEDULE No. 23

## GENERAL ENDOWMENT FUNDS

As at August 31, 1933

Permanent funds, principal to be invested and income only to be used for support of the general work of the University.

*Subscription Gifts Fund, 1845-1851:*

Fund raised by authority of the Trustees of Columbian College by general subscription between the years 1845 and 1851, as a permanent endowment for the support of the college. (Formerly called the Poindexter Endowment Fund)

\$12,525 56

*Withers Fund:*

Fund raised by authority of the Trustees of Columbian College between the years 1851 and 1870, for increasing the endowment fund of the College; John Withers of Alexandria, Virginia, giving \$16,000.00, and the balance being obtained by general subscription. (Formerly called the Forty Thousand Dollar Endowment Fund.)

26,891.46

*Corecoran Fund:*

Fund raised by authority of the Trustees of Columbian College and Columbian University between the years 1871 and 1886, to be forever held inalienable, and not to be diminished by use for the support of the institution, but the whole amount to be invested, in the discretion of the Trustees and according to their best judgment, and the interest thereon or the income therefrom to be used for the current expenses and support of the institution; William W. Corecoran, of Washington, D. C., giving \$112,000.00, and the balance being obtained by general subscription

220,155 76

*Syms Fund:*

Bequest of Samuel Syms, of West Hoboken, New Jersey, in 1891, to Columbian University, to be applied by the Trustees toward the endowment of the College Proper

1,500 00

*Alumni Endowment Fund:*

A fund established by the Senior Class of 1920, as a testimonial of grateful appreciation, to be added to by succeeding graduating classes, the income only to be used for the general welfare of the University, as directed by the Board of Trustees

542 00

*1923-24 Campaign Fund:*

Receipts through the Treasurer of the Fund, from various donors, and invested as a general endowment

\$186,599 38

*George N. Acker Fund:*

Bequest of George N. Acker, M.D., of Washington, D. C., received July 2, 1924. An unconditional gift carried as a general endowment by direction of the Board of Trustees

300 00

*Trustees' Fund*

Created by Mr. Harry Cassel Davis, April 14, 1932, with an initial gift of \$100.00 for the purpose of increasing the general endowment of The University

955 00

\$449,469 16



### THE SCOTTISH RITE ENDOWMENT FUND

A fund of One Million Dollars, created by indenture, dated December 27, 1928, by the Supreme Council of the Ancient and Accepted Scottish Rite of Freemasonry of the Southern Jurisdiction of the United States of America, as a permanent memorial to George Washington, The Mason, and in consideration of its high esteem of The University as an institution of learning. The principal of the fund is payable as follows: "One Hundred Thousand Dollars on the execution and delivery of this indenture, or deed of donation. Annually thereafter this sum of One Hundred Thousand Dollars a year, payable on or before the 22nd of February in each year, until the sum above named has been fully paid." The principal of the fund is "to be held by the University in trust, in perpetuity, and by the Board of Trustees of The University to be safely invested and the income thereof used in the establishment and maintenance by the University as a part of its institution of learning of a School or Department of Government designed to perpetuate the principles of human freedom, the rights of man, and the sovereignty of the people, as those principles are enunciated in the Constitution of the United States and embodied in the system of State and Federal Governments composing the United States of America" ..... \$600,000.00

### PROFESSORSHIP ENDOWMENT FUNDS

Permanent funds, principal to be invested and income only to be used, for support of professorships as specified by the donors.

#### Congressional Professorship Fund:

Donation by the United States, in 1832, by Act of Congress, of \$25,000 in city lots in Washington, D. C., to be sold and the proceeds invested as a capital, the dividends or interest to be used and applied, in aid of other revenues of Columbian College, to the establishment and endowment of such professorships therein "as now are, or hereafter shall be, established by the Trustees" ..... \$105,362.95

#### Elton Professorship Fund:

Bequest of Rev. Romeo Elton of Exeter, England, in 1872, to be applied for the foundation of a professorship of mental and moral philosophy in Columbian College, to be called the Elton Professorship of Mental and Moral Philosophy ..... 14,508.19

#### Alumni Professorship Fund:

Gifts of various alumni since 1911, for the endowment of an Alumni Professorship of Mathematics, the amount to be invested and the interest only to be used for the professorship ..... 829.49

#### Mitchell Carroll Professorship Fund:

A fund established by Mary A. Sharpe, April 17, 1928, to memorialize Professor Mitchell Carroll; the income to be used to provide a revenue for a chair of Archaeology ..... 500.00

#### Nancy Yulee Endowment Fund:

Bequest of Nannie Yulee Noble, in memory of her mother, Nancy Yulee; income to be used for lectures in Home Economics. Fund established April 22, 1929 ..... 5,000.00

*Art and Archaeology Fund:*

A fund established by the Board of Trustees on May 18, 1927, the income to be devoted to the "support of the School of Classical Studies at Athens as long as the Board desires to contribute to this cause".....

1,000.00

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\$127,200.63

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## SPECIFIC ENDOWMENT FUNDS

Permanent funds, principal to be invested and income only to be used, for designated purposes specified by the donors (other than support of professorships) incidental to, or connected with, the general work of the University.

## SCHOLARSHIP FUNDS:

*Walker Scholarship Fund:*

Gift of William Walker, of Putnam County, Georgia, in 1824, for the endowment of a scholarship.....

\$2,500.00

*Withington Scholarship Fund:*

Gift of the Board of Trustees of the New York Baptist Theological Seminary, on behalf of John Withington, of New York, in 1829, for the purpose of endowing a scholarship in Columbian College, to be named the Withington Scholarship.....

1,953.19

*Morehouse Scholarship Fund:*

Gift of A. Morehouse, of Washington, D. C., in 1861, to Columbian College, with the design of adding to its ability to furnish gratuitous instruction to indigent students for the Christian ministry.....

1,500.00

*Kendall Scholarship Fund:*

Gift of Amos Kendall, of Washington, D. C., in 1869, to Columbian College on behalf of Calvary Baptist Church in the City of Washington, to purchase a classical scholarship; The Trustee of Public Schools in the City of Washington, and their successors, to have the perpetual privilege of selecting from said schools one pupil annually to fill said scholarship, and the pupil so selected each to be entitled to instruction in said College, for the term of six years, free of charge for tuition, use of library, and apparatus, or for any other privilege allowed to paying students of the same grade.....

5,959.61

*Davis Scholarship Fund:*

Gift of Isaac Davis, of Worcester, Massachusetts, in 1869, the income to be appropriated to some student pursuing his collegiate course in Columbian College under certain conditions..

1,000.00

*M. M. Carter Scholarship Fund:*

Gift of Mrs. Maria M. Carter, of Washington, D. C., in 1871 to Columbian College, to found a scholarship for some deserving young man.....

1,000.00

# TRUST ACCOUNTS

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<i>Founders of Columbian Women Scholarship Fund:</i>	
A fund established by the "Columbian Women" of George Washington University, in 1920, to provide scholarships for women in Columbian College.....	5,000.00
<i>Woodhull Scholarship Fund:</i>	
Bequest of Ellen M. E. Woodhull, of Washington, D. C., the income to be used for scholarships.....	600.00
<i>The Lillian Young Herron Scholarship Fund:</i>	
A fund established by the "Columbian Women" of George Washington University, in 1925, to provide scholarships for women in Columbian College. (Formerly Third Columbian Women Scholarship Fund.).....	5,000.00
<i>Byron Andrews Memorial Scholarship Fund:</i>	
A fund founded by Mrs. Belle Fisk Andrews, in memory of her husband, Byron Andrews, to provide scholarships "for ambitious and needy students in English, Latin, Journalism, History, Literature or Political Science." (Principal of fund held in trust for investment by the American Security and Trust Company.).....	5,000.00
<i>David Spencer Scholarship Fund:</i>	
Devise in trust of real estate in Knox County, Illinois, the income to constitute an educational fund which under certain conditions shall be used to aid in defraying the expenses of designated students at the University.....	18,135.00
<i>Farnham Scholarship Fund:</i>	
Gift of Mrs. Robert Farnham, of Washington, D. C., in 1871, to Columbian College for a scholarship in the College.....	1,000.00
<i>Powell Scholarship Fund:</i>	
Devise of real estate by Rear Admiral Levin M. Powell, of Washington, D. C., in 1886, to Columbian University for the free education of young men by way of preparation for entrance in the Naval Academy at Annapolis, or to fit them to become mates and masters in the Merchant Marine Service of the United States.....	30,000.00
<i>Mary Lowell Stone Scholarship Fund:</i>	
Gift of an anonymous person in memory of Miss Mary Lowell Stone, in 1893, to Columbian University for Scholarships for needy women students in science in the Department of Arts and Sciences.....	2,000.00
<i>H. H. Carter Scholarship Fund:</i>	
Gift of Mrs. Maria M. Carter, of Washington, D. C., in 1896, in memory of her husband, Henry Harding Carter, to Columbian University, as a foundation for scholarships in Civil Engineering in Columbian College.....	5,000.00
<i>Nellie Maynard Knapp Scholarship Fund:</i>	
Gift of the "Columbian Women," in 1915, in memory of Mrs. Nellie Maynard Knapp, to The George Washington University, for scholarships for women in the Department of Arts and Sciences.....	5,000.00



*Elma Lewis Harvey Scholarship Fund:*

Bequest of Mrs. Emma Elizabeth Harvey, in memory of her daughter, Elma Lewis Harvey, to found a scholarship in the Department of Arts and Sciences for young women of the Protestant faith and of the Caucasian race. (Principal of fund held in trust for investment by The Washington Loan and Trust Co.).....

5,000.00

*Elizabeth V. Brown Scholarship Fund:*

A fund created by the College Women's Club of Washington, D.C., in 1925, as a memorial to Elizabeth V. Brown, the income to be used for scholarships in the School of Education

1,200.00

*College Women's Scholarship Fund:*

Donation by the College Women's Club of Washington in 1926, the income to be used by the "Columbian Women" for scholarships.....

500.00

*Isabella Osborn King Memorial Fund:*

Bequest of Isabella O. King, by will dated March 15, 1920; the income to be used to provide a scholarship for special investigation in Biology.....

40,643.63

*Lewis D. and Myrtle H. Wilson Scholarship Fund:*

A fund established by Miss Elizabeth Wilson, in 1926, the income to be used by the "Columbian Women" for Scholarships

1,000.00

*Thomas Bradford Sanders Fellowship Fund:*

Bequest of Addie Sanders by will dated March 13, 1928 to The George Washington University, in memory of her late brother, Thomas Bradford Sanders, the income to be used by the proper authorities of The George Washington University in the exercise of their sole and absolute discretion for the establishment of annual scholarships in the several departments of said University, to assist young men and women in obtaining an education and furthering their causes. (Principal of fund held for investment by the National Savings and Trust Company).....

\$179,510.44

*District of Columbia D. A. R. Scholarship Fund:*

A fund contributed by chapters in the District of Columbia, the income to be loaned children of members.....

2,105.99

*Grace Ross Chamberlin Scholarship Fund:*

A fund established in January 1932 by the "Columbian Women" of The George Washington University to provide scholarships for women in Columbian College.....

1,000.00

\$321,607.80**PRIZE FUNDS:***Davis Prize Fund:*

Gift of Isaac Davis, of Worcester, Massachusetts, in 1847, to Columbian College, for prizes to be awarded annually to such members of the senior class as shall have made the greatest progress in elocution since their connection with the College.

700.00

*Ruggles Prize Fund:*

Gift of William Ruggles, of Washington, D. C. (a Professor in Columbian College and at one time Acting President), in 1859, to Columbian College, for a prize to be awarded annually for excellence in mathematics..... 500 00

*Staughton-Elton Prize Fund:*

Gift of Rev. Romeo Elton, of Exeter, England, in 1860 and 1865, to Columbian College, for prizes to be awarded annually for excellence in the Latin and Greek Languages; one to be called the Staughton prize in Latin, the other the Elton prize in Greek..... 500 00

*Fitch Prize Fund:*

Gift of James E. Fitch, of Washington, D. C., in 1883, to Columbian University, in memory of Willie E. Fitch, for a gold prize to be assigned annually under the auspices of the Scientific School..... 1,000.00

*Walsh Prize Fund:*

Gift of Thomas F. Walsh, of Washington, D. C., in 1901, to Columbian University, for a gold medal to be awarded annually for excellence in Irish history..... 700.00

*Cutter Prize Fund:*

Gift of Marion Kendall Cutter, of Washington, D. C., in 1902, to Columbian University, in memory of E. K. Cutter, for a prize to be awarded annually for excellence in the study of English..... 1,000.00

*Goddard Prize Fund:*

Gift of Mary M. Goddard, Alice Douglas Goddard, and Frederick J. Goddard, of Georgetown, D. C., in 1923, in memory of Morgan Richardson Goddard, for a gold medal, and a cash prize, to be awarded annually to the student making the highest average in Commerce..... 1,169 00

*Goddard Prize Fund:*

Gift of Mary W. Goddard, Alice Douglas Goddard, and Frederick J. Goddard, of Georgetown, D. C., in 1923, in memory of James Douglas Goddard, for a gold medal to be awarded annually to the student making the highest average in Pharmacy..... 675 00

*Goddard Prize Fund:*

Gift of Mary W. Goddard, Alice Douglas Goddard, and Frederick J. Goddard, of Georgetown, D. C., in 1923, in memory of Edward Carrington Goddard, class of '81, for a gold medal to be awarded annually to the student making the highest average in the French language and literature..... 675 00

*Hubbard Prize Fund:*

Gift of Mrs. Gertrude M. Hubbard, of Washington, D. C., in 1907, to The George Washington University in memory of her husband, Gardiner G. Hubbard, for a prize to be awarded

## REPORT OF THE COMPTROLLER

annually to the student in the undergraduate department of the University, who, having maintained throughout four years a high standing in the classes of American History, may be required to present the best essay upon an assigned topic in this subject.

*Ordronaux Prize Fund:*

Bequest of John Ordronaux, of Glen Head, N. Y., in 1909, to The George Washington University, for the establishment of biennial prizes in the Law and Medical Departments.

1,000.00

*Weddell Prize Fund:*

Gift of Mrs. Virginia Chase Weddell, in 1923, to found a prize to be known as the "Alexander Wilbourne Weddell Prize," to be awarded annually to the student submitting the best essay upon the general subject of the promotion of peace among the nations of the world.

5,000.00

*Sterrett Prize Fund:*

Gift of Rev. J. MacBride Sterrett, in 1911, to The George Washington University, in memory of his son, J. MacBride Sterrett, Jr., for a gold medal to be awarded annually to the student obtaining the highest average in Physics.

5,000.00

*Larner Prize Fund:*

Bequest of the late John B. Larner to provide an annual prize in the Law School.

300.00

800.00

\$19,019.00**MEDICAL SCHOOL, HOSPITAL, AND PHARMACY FUNDS:***Cooper Medical Research Fund:*

Bequest of Mrs. Eleanor J. Cooper, of Washington, D. C., in 1905, to Columbian University on certain terms since modified by the Supreme Court of D. C., as follows: The income to be devoted towards the establishment and maintenance, in connection with the Medical Department of The George Washington University, of a Research Laboratory, the work of this laboratory to be devoted to the investigation of the nature, causation, prevention, and cure of malaria and other infectious and contagious diseases.

\$10,000.00

*Sharpe Medical School Fund:*

Gift of Mary A. Sharpe, Elizabeth M. Sharpe, and Sallie Sharpe, in 1924, to establish a fund in trust, the income to be used exclusively for the School of Medicine. (Principal of fund held in trust for investment by the National Savings and Trust Co.)

8,000.00

*Lewis Medical School Fund:*

Bequest of Samuel E. Lewis, received in 1925, the income to be used for the support of The School of Medicine.

103,304.15

*Gardner Medical School Fund:*

Bequest of William D. Gardner, received in 1928; the income to be used for the support of The School of Medicine.

4,486.55



# TRUST ACCOUNTS

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## General Medical Endowment Fund:

A fund created February 3, 1932 by an initial gift of Gertrude S. Rosson; principal to remain intact, the income only to be used for the support of The School of Medicine..... 300.00

## Borden Fund:

A fund created December 8, 1932 by Dr. and Mrs. William C. Borden for the advancement of Surgery in The School of Medicine..... 1,000.00

## National Park Seminary Hospital Fund:

Gift of students of National Park Seminary, of Forest Glen, Maryland, in 1906, to The George Washington University, for the endowment of a bed in the University Hospital..... 500.00

## Woodbury Hospital Fund:

Bequest of Miss Ellen deQ. Woodbury, of Washington, D. C., in 1909, to The George Washington University, for the reception and treatment of female patients in the hospital belonging to or connected with the University..... 10,000.00

## Chapman Hospital Fund:

Bequest of Mrs. Susanna A. Chapman, of Washington, D. C., in 1911, to The George Washington University, to be used for the purposes of the free wards of the University Hospital..... 1,225.90

## Tree Hospital Fund:

Bequest of Lambert M. Tree, of Chicago, Illinois, in 1911, in memory of his mother, Mrs. Laura M. Tree, to Columbian University, for the purpose of establishing one or more beds in perpetuity in the University Hospital to be known as the "Laura M. Tree bed or beds"..... 10,000.00

## Reinhardt Hospital Fund:

Bequest of Mrs. Luisa Wynne Reinhardt, of Washington, D. C., in 1922, to the University Hospital, to be used for the benefit of the Hospital, as directed by the Board of Trustees.... 500.00

## Board of Lady Managers Hospital Fund:

Gift of the Board of Lady Managers of The George Washington University Hospital, in 1925, to establish a fund, the income to be used for the support of the Hospital..... 1,000.00

## General Hospital Endowment Fund:

Bequest of Dr. I. M. Cassanowicz..... 100.00

## Gibbs Pharmacy Fund:

Gift of M. G. Gibbs, of Washington, D. C., to The George Washington University; the income to be used to aid in establishing and maintaining a commercial pharmacy course in connection with its School of Pharmacy..... 10,000.00

\$160,416.60

*Fund for Physical Development:**The Richard E. Pairo Fund—Athletics:*

A fund created by the late Richard E. Pairo of Washington, D. C., by devise to The George Washington University, "for the use and benefit of Athletics of The University either by using the principal for the purchase of a Campus or the building and equipping of a Gymnasium, or investing the principal and devoting the income therefrom in promoting the athletic Sports of The University, as the trustees and faculty of The University may deem wisest and best"

\$382,287.06

TOTAL GENERAL ENDOWMENT FUNDS—EXHIBIT "A" . . . . . \$2,060,000.25

## SCHEDULE No. 24

## EXECUTORY TRUST FUNDS

As at August 31, 1933

Non-permanent funds, principal and income usable for the purposes specified by the donors, each trust terminating on its execution.

## EXECUTORY TRUST FUNDS NOT CONFINED TO BUILDING PURPOSES:

*Swisher Book Fund:*

A fund contributed by various donors to be used for the purchase of books on History for the Arts and Sciences Library . . .

\$65 80

*Administrative Reserve Fund:*

A fund created by order of the President of The University to be drawn upon to meet the administrative emergencies . . .

407 48

*Guggenheim Fund for the Promotion of Aeronautics:*

Unexpended portion of the original gift of \$6,000 by the Daniel Guggenheim Foundation to be used for expenses of Professor Woolard according to the terms of the gift . . . . .

208 49

*Plumbing and Heating Institute Fund:*

A fund created by sundry persons interested in the plumbing and heating trade to establish an Institute to afford a course of lectures in plumbing and heating . . . . .

310 71

*Engineering Club Room Fund:*

A fund created to equip and maintain a club room for the use of students in the Engineering Department . . . . .

110 64

*William P. Eno Fund:*

Donation by Mr. William P. Eno to provide a prize for the best essay on Traffic Regulation for the District of Columbia . . .

175 00

*Student Loan Fund:*

A fund to total \$10,000 created by the Board of Trustees for the purpose of making short time loans to students for educational purposes . . . . .

3,814 04

# TRUST ACCOUNTS

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## *Depew Oratory Fund:*

Semi-Annual contribution of Mrs. Chauncey M. Depew to be used for salaries and other expenses in the Department of Public Speaking for the year 1933-34..... 3,000.00

## *Freda Kuhlbank Hospital Fund:*

Bequest of the late Freda Kuhlbank to The George Washington University Hospital for a bed or beds in the White Ward to be known as the "Freda Kuhlbank Bed." The income of this bequest to be added to the principal of the fund until the principal shall be sufficient to produce an income large enough to maintain a bed in the White Ward of The George Washington University Hospital..... 699.61

## *Student Union Furnishings Fund:*

A fund created by various contributions during the second semester of the 1930-31 academic year for the purpose of furnishing and equipping the new Student Union Building..... 1,918.67

## *Law Library Fund:*

A fund established March 24, 1932 by consolidation of the Lafayette Memorial Fund and the Maury Memorial Fund. Principal and income to be used for the benefit of the Law School Library..... 2,646.80

## *Annie Kimmel Hospital Fund:*

A fund created March 4, 1932 by the late Annie Kimmel by bequest to The George Washington University "for the benefit of its hospital"..... 2,409.55

## *Pharmacy Loan Fund:*

A fund of \$100 created February 28, 1933 by the W.O.N.A.R.D. to be loaned to students of The School of Pharmacy for payment of tuition in The University.... 50.00

## *Duplicating Bureau Depreciation Fund:*

A fund created by the setting aside of cash receipts of the Duplicating Bureau for the purpose of replacing wornout equipment..... 500.00

## *Reserve for Protection of Investments...*

13,651.75

\$29,968.00

## **BUILDING FUNDS:**

### *General Building Fund:*

An open subscription fund to be continued and increased indefinitely. Principal and income to be used for purchasing sites, buildings, equipment, remodeling or rebuilding and paying off obligations. Fund authorized by the Trustees of The University May 31, 1916..... 86.73



## REPORT OF THE COMPTROLLER

*Class of 1929 Women's Unit No. 3 Fund:*

Gifts from the women members of the Class of 1929 to be used  
in aid of the building of Unit No. 3.....

273.41

*Unit No. 3 Fund:*

Gifts from various persons to aid in the financing of the third  
unit of the building program.....

43,257.07

\$43,617.21

TOTAL EXECUTORY TRUST FUNDS—EXHIBIT "A".....

\$73,585.21

## SUMMARY OF TRUST FUNDS

As at August 31, 1933

*General Endowment Funds:*

General Endowment Funds..... \$449,469.16  
Scottish Rite Endowment Funds..... 600,000.00  
Professorship Endowment Funds..... 127,200.63

*Specific Endowment Funds:*

Scholarship Funds..... \$321,607.80  
Prize Funds..... 19,019.00  
Medical School, Hospital and Pharmacy Funds..... 160,416.60  
Pairo Fund—Athletics..... 382,287.06

Total Exhibit "A".....

\$2,060,000.25*Executory Trust Funds:*

Funds Not Confined to Building Purposes..... 29,968.00  
Building Funds..... 43,617.21

Total—Exhibit "A".....

73,585.21

TOTAL ALL FUNDS.....

\$2,133,585.46

# TRUST ACCOUNTS

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## TRUST FUND INVESTMENTS

SCHEDULE No. 25

### GENERAL ENDOWMENT FUNDS INVESTMENTS

As at August 31, 1933

#### Consolidated Endowment Funds Investments:

#### STOCKS

	Book Value
American Telephone and Telegraph Co. 21 shares of Common Stock.....	\$ 1,337.80
Atchison, Topeka and Santa Fe Railroad Co. 10 shares of 5% Non-Cumulative Preferred Stock	950.00
Capital Traction Co. 27 shares of Capital Stock.....	2,835.00
Chicago, Rock Island and Pacific Railway Co. 40 shares of 7% Cumulative Preferred Stock.....	4,000.00
Last dividend paid July 1, 1931. Company in of process of reorganization.	
Chicago, Rock Island and Pacific Railway Co. 100 shares of Common Stock.....	8,094.72
Great Northern Railway Co. 8 shares of Preferred Stock.	
Last dividend paid February 1, 1932	615.00
Mergenthaler Linotype Co. 6 shares of Capital Stock.....	588.00
National City Bank of New York 39 shares of Capital Stock.....	3,517.04
Potomac Electric Power Co. 2 shares of 6% Cumulative Preferred Stock.....	214.25
Southern Pacific Co. 3 shares of Capital Stock.	
Last dividend paid January 1, 1932	306.75
Southern Railway Co. 4 shares of 5% Preferred Stock.	
Last dividend paid December 1, 1931.....	563.00
Timken-Detroit Axle Co. 6 shares of 7% Cumulative Preferred Stock.....	570.00

\$23,391.56

#### BONDS

	Book Value
American Telephone and Telegraph Co. \$1,000 5% Collateral Trust Bonds, due 1946.....	\$ 1,012.50
Atlantic Coast Line Railroad Co. \$10,000 4% Consolidated Gold Debenture Bonds, due 1939 .....	9,550.00
Canadian Pacific Railway Co. \$5,000 5% Collateral Trust Gold Bonds, due 1954 .....	5,000.00

Capital Traction Co.	
\$4,000 5% First Mortgage Gold Coupon Bonds, due 1947 .....	3,940.00
Chesapeake and Ohio Railroad Co.	
\$15,000 4½% Refunding and Improvement Mortgage Bonds Series "A", due 1993.....	14,250.00
Chicago, Rock Island and Pacific Railway Co.	
\$24,000 4% First and Refunding Mortgage Bonds, due 1934.....	20,959.17
Principal and interest in default. Company in process of reorganization.	
Cleveland Union Terminal Co.	
\$5,000 5% First Mortgage Sinking Fund Bonds; Series "B", due 1973.....	5,275.00
Grand Trunk Western Railway Co.	
\$6,000 4% First Mortgage Gold Bonds, due 1950	5,475.00
New York Central Railroad Co.	
\$5,000 4½% Refunding and Improvement Mort- gage Gold Bonds; Series "A", due 2013.....	5,000.00
New York Steam Corporation	
\$1,000 6% First Mortgage Gold Bonds; Series "A", due 1947 .....	1,027.50
Pacific Gas and Electric Co.	
\$15,000 4½% First and Refunding Mortgage Bonds; Series "F", due 1960.....	14,700.00
Philadelphia Electric Co.	
\$2,000 4% First and Refunding Mortgage Bonds, due 1971 .....	1,870.00
Potomac Electric Power Co.	
\$16,000 5% Consolidated Mortgage Gold Bonds, due 1936 .....	16,025.00
Province of Ontario	
\$15,000 5% Debenture Bonds, due 1959.....	14,962.50
Southern Bell Telephone and Telegraph Co.	
\$30,000 5% First Mortgage Sinking Fund Gold Bonds, due 1941 .....	29,925.00
Southern California Edison Co.	
\$6,500 5% Refunding Gold Bonds, due 1954.....	6,223.75
State of Minnesota	
\$1,000 4% City of Minneapolis Bridge Bonds, due 1939 .....	990.30
Union Pacific Railroad Co.	
\$1,000 4% First Mortgage Railroad and Land Grant Gold Bonds, due 1947.....	922.50



# TRUST ACCOUNTS

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## United States of America

\$89,000 4¼% Certificate of Indebtedness, TD-2  
due December 15, 1933.....

90,685.00

## Washington Gas Light Co.

\$3,000 5% General Mortgage Gold Coupon  
Bonds, due 1960 .....

3,085.00

## Washington Railway and Electric Co.

\$6,500 4% Consolidated Mortgage Gold Bonds,  
due 1951 .....

5,291.25

## West Shore Railroad Co.

\$1,000 4% Guaranteed First Mortgage Gold  
Bonds, due 1961 .....

838.75

# TRUST NOTES

\$257,008.22

## Frank Armstrong Notes

Five notes, secured by deed of trust on lot 66,  
square 1868; interest 6%, due Nov. 10, 1934.....

\$ 5,000.00

## H. L. Breuninger Note

One of a series of 14, secured by deed of trust on  
lot 23, square 2714; interest 6%, due May 21,  
1934 .....

5,000.00

## Morris Cafritz Notes

One of a series of 33, secured by deed of trust  
on lots 1 and 53, square 2061; interest 6%,  
due February 23, 1935.....

5,000.00

Interest in \$350,000 note payable to Washington  
Loan and Trust Co., secured by deed of trust,  
executed by The University to National Savings  
and Trust Company Trustee, December 1,  
1910, on Medical and Hospital Lands and  
Buildings, 1335-1339 and 1341 H Street, N. W.,  
without interest; due on or before December  
1, 1920 .....

319,910.24

## A. Hislop and J. H. Bartlett Notes

Numbers 153, 154, 191, 62, 63, 107, 110 to 124  
of 280, secured by lot 807, square 253; in-  
terest 5%, due March 14, 1936.....

25,000.00

## Kresge Realty Company Notes

Numbers 2, 3, and 19 of 25, secured by deed of  
trust on lot 1, square 319; interest 5%, due  
September 9, 1934 .....

30,000.00

## Chester A. Snow Notes

Numbers 36, 44, 48, 52, 70, 71, 73, and 74 of 95,  
secured by deed of trust on Lot 77, square 162;  
interest 5%, due October 31, 1934.....

8,000.00

\$397,910.24

## REPORT OF THE COMPTROLLER

## REAL ESTATE

	Book Value	
Congressional Endowment:		
Lot 818, Square 13.....	\$ 3,813.50	
Lot 12, Square 13.....	3,715.00	
Lot 13, Square 13.....	3,270.00	
Lot 9, Square 16.....	2,594.20	
Lot 5, Square 87.....	8,532.00	
		21,924.70
Interest in lots 4, 22, 23 and 53, square 199, formerly the Charles H. Butler Notes. Notes in default and property now managed by the Washington Loan and Trust Co. Part of a total loan of \$110,000.....	25,000.00	\$46,924.70

## MISCELLANEOUS

Certificate of Deposit	
Washington Loan and Trust Co.....	150.00
	<u>725,384.72</u>

INVESTMENTS OF SEPARATELY INVESTED FUNDS  
SCOTTISH RITE ENDOWMENT FUND INVESTMENTS  
BONDS

	Book Value
American Telephone and Telegraph Co. \$1,000 5½% Sinking Fund Gold Debenture Bonds, due 1943.....	\$ 1,037.50
Brooklyn Edison Co. \$20,000 5% General Mortgage Gold Bonds; Series "A", due 1949.....	21,000.00
Buffalo Creek Railroad Co. \$15,000 5% First Mortgage Bonds, due 1941.....	15,337.50
Canadian Pacific Railway Co. \$15,000 5% Collateral Trust Gold Bonds, due 1954 .....	15,000.00
Cleveland Union Terminal Co. \$25,000 4½% First Mortgage Sinking Fund Gold Bonds, due 1977 .....	24,437.50
Consolidated Gas, Electric Light and Power Co. of Baltimore. \$10,000 4½% First Refunding Mortgage Sinking Fund Gold Bonds; Series "C"; due 1969.....	9,977.00
Danish Consolidated Municipal Loan \$7,000 5½% External Sinking Fund Bonds, due 1955 .....	6,975.00
Delaware and Hudson Co. \$5,000 4% First and Refunding Mortgage Bonds, due 1943 .....	4,650.00

## TRUST ACCOUNTS

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General Steel Castings Corporation	
\$15,000 5½% First Mortgage Gold Bonds; Series "A", due 1949.....	14,965.50
Grand Trunk Western Railway Co.	
\$10,000 4% First Mortgage Gold Bonds, due 1950.....	9,125.00
Inland Steel Company	
\$6,000 4½% First Mortgage Sinking Fund Gold Bonds; Series "A", due 1978.....	5,700.00
Kingdom of Denmark	
\$15,000 4½% External Gold Loan of 1928, due 1962.....	14,212.50
Kingdom of Norway	
\$5,000 5% Sinking Fund External Loan Gold Bonds, due 1963.....	4,862.50
Missouri Pacific Railroad Co.	
\$10,000 5% First and Refunding Gold Bonds; Series "F", due 1977.....	9,807.50
Principal and interest in default. Company now in process of reorganization.	
Pacific Gas and Electric Co.	
\$5,000 4½% First and Refunding Mortgage Bonds; Series "F", due 1960.....	4,900.00
Pennsylvania Power and Light Co.	
\$15,000 4½% First Mortgage Gold Bonds due 1981.....	14,475.00
Pennsylvania Railroad Co.	
\$15,000 4½% Gold Debenture Bonds, due 1970.....	14,137.50
Philadelphia Electric Co.	
\$3,000 4% First and Refunding Mortgage Bonds, due 1971.....	2,805.00
Port of New York Authority	
\$14,000 4¼% Gold Bonds, due 1958.....	14,070.00
\$1,000 4¼% Gold Bonds, due 1959.....	1,005.00
Portland General Electric Co.	
\$10,000 4½% First and Refunding Mortgage Gold Bonds, due 1960.....	9,050.00
Public Service Electric and Gas Co.	
\$35,000 4½% First and Refunding Mortgage Gold Bonds, due 1970.....	33,337.50
Railway Express Agency Inc.	
\$15,000 5% Gold Bonds; Series "A", 10M due 1947, 5M due 1948.....	14,965.50
Shawinigan Water and Power Co.	
\$10,000 4½% First Mortgage and Collateral Trust Sinking Fund Gold Bonds; Series "B", due 1968.....	9,419.75
\$15,000 5% First Mortgage and Collateral Trust Sinking Fund Gold Bonds; Series "C", due 1970.....	14,700.00
Standard Oil Company of New York	
\$15,000 4½% Serial Gold Debentures, due 1946.....	14,587.50



State of New York	
\$1,000 5% Loan for Highway Improvement, due 1942 .....	1,111.05
United States of America	
\$242,000 4¼% Certificates of Indebtedness, TD-2 due December 15, 1933 .....	246,272.50
West Shore Railroad Co.	
\$14,000 4% Guaranteed First Mortgage Gold Bonds, due 2361 .....	12,355.00
Western Union Telegraph Co.	
\$10,000 5% Thirty Year Gold Bonds, due 1960 ..	9,977.00
Youngstown Sheet and Tube Co.	
\$10,000 5% First Mortgage Sinking Fund Bonds,, Series "A", due 1978 .....	10,250.00
\$15,000 5% First Mortgage Sinking Fund Bonds; Series "B", due 1970 .....	15,112.50
	<hr/> \$599,618.30

THOMAS BRADFORD SANDERS FELLOWSHIP FUND  
INVESTMENTS

*As shown in report rendered June 10, 1933 by the National Savings and Trust Co., Trustees*

BONDS

	Book Value
Baltimore and Ohio Railroad Company	
\$10,000, 4% First Mortgage Fifty Year Gold, due July 1, 1948 .....	\$9,587.50
Capital Traction Company	
\$5,000, 5% First Mortgage Gold Coupon, due June 1, 1947 .....	5,187.50
City of Newark, New Jersey	
\$4,000, 4½% Passaic Valley Sewer, due April 1, 1949 .....	4,403.78
Potomac Electric Power Co.	
\$5,000, 5% Consolidated Mortgage Gold, due July 1, 1936 .....	5,187.50
United States of America	
\$5,000, 4¼% Fourth Liberty Loan, due October 15, 1938 .....	5,167.00
\$100, 4¼% Fourth Liberty Loan, due October 15, 1938 .....	103.34
\$100, 3½% First Liberty Loan, due June 15, 1947 .....	101.25
U. S. Treasury	
\$500, 3⅞%, due June 15, 1949 .....	486.00
	<hr/> \$30,223.87

## TRUST ACCOUNTS

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## STOCKS

## United States Steel Corporation

280 shares, Common, Par \$100

\$2,595.00

100 shares, Preferred, Par \$100

\$4,537.50

## Washington Railway and Electric Company

100 shares, Preferred, Par \$100

10,212.50

67,345.00

## NOTES

## Robert F. Allensworth,

dated November 22, 1926, extended to November 22, 1934, with interest at 6 $\frac{1}{2}$ %, payable semiannually, secured on Lot 168, Square 628, premises 2-10 F Street, N. W., Part of a total loan of \$10,850.

\$9,850.00

## Woodson P. Houghton,

dated March 26, 1927, extended to March 26, 1936, with interest at 6%, payable semiannually, secured on Lots 3, 169, 800, 801 and 802, Square 70, premises 1201-15 22nd Street, N. W. and 2101-17 M Street, N. W., Part of a total loan of \$40,000.

14,000.00

## Martinique Hotel Company,

dated October 2, 1925, extended to October 2, 1934, with interest at 6%, payable semiannually, secured on Lot 175, Square 70, premises 2100 N Street, N. W., Part of a total loan of \$60,000.

10,200.00

## Harry A. Miller,

dated November 5, 1927, payable November 5, 1932 with interest at 6%, payable semiannually, secured on Lots 2, 28, 29, 30, 31 and 32, Square 163, premises 1018-1032 Connecticut Avenue, N. W. Negotiations for curtailment or payment pending. All of a total loan of \$5,000.

5,000.00

## Philip Milstone,

dated September 12, 1929, extended to September 12, 1935, with interest at 6%, payable semiannually, secured on Lots 806 and 807, Square 378, premises 935-7 D Street, N. W. and Lot 808, Square 378, premises 409 10th Street, Part of a total loan of \$125,000.

42,000.00

## Harriette B. Stuart,

dated March 31, 1925, extended to on or before March 31, 1933, with interest at 6%, payable semiannually, secured on Lot 32, Square 2572, premises 1656 Euclid Street, N. W. Negotiations for curtailment or

## REPORT OF THE COMPTROLLER

payment pending. Part of a total loan of \$21,000 .....	600.00	
David W. Rosen, et al., dated February 16, 1928, extended to 1934, with interest at 6%, payable semiannually, secured on Lots 22 and 23, Square 676, improved by 24 and 26 H Street, N. E., Part of a total loan of \$30,000 .....	100.00	\$81,750.00
<i>The following notes were issued through the office of Swartzell, Rhein and Hensley Company and are carried herein at value of \$1.00 each:</i>		
Rose G. Casey, Dated November 7, 1925, 5 years, 6½%, semi- annually, purporting to be secured by deed of trust on Lots 9 and 10, Square 2672, Carried herein at.....	1.00	
Robert E. Doleman, Dated May 16, 1927, 3 years, 6%, semiannually, purporting to be secured by deed of trust on Part Lots 13 and 14, Square 919. Carried herein at.....	1.00	
Brice G. Payne, Dated June 30, 1925, 5 years, 6½%, semi- annually, purporting to be secured by deed of trust on Part Lots 14 and 15, Square 2528. Carried herein at.....	1.00	
Alton W. Peters, Dated August 4, 1927, 3 years, 6%, semiannually, purporting to be secured by deed of trust on Lots S. T. R. V and W, Square 755. Carried herein at.....	1.00	
Howard A. Schladt, Dated July 30, 1927, 3 years, 6%, semiannu- ally, purporting to be secured by deed of trust on Lot 4, Square 2138. Carried herein at....	1.00	
David L. Stern, Dated January 30, 1928, 3 years, 6%, semi- annually, purporting to be secured by deed of trust on Lot 24, Square 1972. Carried herein at.....	1.00	
Hugh Woods, Dated April 25, 1927, 3 years, 6%, semiannu- ally, purporting to be secured by deed of trust on Lot 119, Square 375. Carried herein at ..	1.00	
Jewelry Appraised at.....		\$7 00 92 00
		<hr/> \$179,417 87

## REAL ESTATE (NOT APPRAISED)

Washington, D. C.  
Lot 808, Square 335, improved in part by premises No. 1731  
11th Street, N. W.



# TRUST ACCOUNTS

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Lot 813, Square 68, improved in part by premises No. 2144  
P Street, N. W.

Lot 817, Square 104, unimproved lot between 526 and 530  
20th Street, N. W.

Maryland

3 Acres of land on Benning Road, District No. 2

## THE RICHARD E. PAIRO FUND INVESTMENTS STOCKS

	Book Value
Alleghany Corporation	
100 shares of Common Stock	\$2,700.00
American Security and Trust Company	
20 shares of Capital Stock	8,220.00
Bethlehem Steel Corporation	
50 shares of Cumulative Preferred Stock	6,531.25
Canada Packers, Limited	
50 shares of Cumulative Preference Stock	4,912.50
Capital Traction Company	
300 shares of Capital Stock	21,600.00
Chicago, Milwaukee, St. Paul and Pacific Railroad Co.	
100 shares of Common Stock	2,100.00
Columbia Gas and Electric Corporation	
60 shares of Cumulative Preferred Stock "A".	6,592.50
Drug, Incorporated	
56 shares of Capital Stock	4,480.00
E. I. du Pont de Nemours and Company	
56 shares of Non-voting Debenture Stock	7,252.00
Kansas City Power and Light Company	
50 shares of Preferred Stock "B"	3,120.00
Merchants Transfer and Storage Company	
100 shares of Preferred Stock	10,000.00
Mergenthaler Linotype Company	
150 shares of Capital Stock	15,806.25
The National Bank of Washington	
100 shares of Capital Stock	25,500.00
The Pennroad Corporation	
100 shares of Common Stock	1,300.00
The Potomac Insurance Company of the D. of C.	
12 shares of Capital Stock	1,320.00
The Riggs National Bank of Washington, D. C.	
114 shares of Capital Stock	60,420.00
Safeway Stores, Incorporated	
60 shares of Common Stock	9,690.00
Texas Gulf Sulphur Company	
100 shares of Common Stock	5,912.50
Union Trust Company of the D. of C.	
100 shares of Capital Stock	31,100.00
The United Corporation	
50 shares of \$3 Cumulative Preference Stock	2,556.25
Van Sweringen Corporation	
60 shares of Common Stock	1,425.00
	<hr/>
	\$232,538.25

## BONDS

Brooklyn Edison Company	
\$9,000 5% General Mortgage Gold Bonds Series "E", due 1952.....	8,707.50
Chicago, Milwaukee, St. Paul and Pacific R.R. Co.	
\$2,500 5% 50 Year Mortgage Gold Bonds Series "A", due 1975.....	2,400.00
Houston Independent School District	
\$5,000 5% Serial Gold Bonds, due 1952.....	5,200.00
Southern California Edison Company	
\$3,500 5% Refunding Bonds, due 1954.....	3,351.25
Texas Power and Light Company	
\$5,000 5% First and Refunding Gold Bonds, due 1956.....	4,220.00
United States of America	
\$122,000 4 1/4%, Certificates of Indebtedness TD-2, due December 15, 1933.....	124,191.25
Washington Gas Light Company	
\$1,500 6% 10 Year Mortgage Gold Bonds, Series "B", due 1936.....	1,575.00
	<u>\$149,645.00</u>
	<u>\$382,183.25</u>

## STOCKS NOT APPRAISED

Alvarez Mining Company	
500 shares of Capital Stock, par value \$1.00.	
The Batopilas Leasing Corporation	
100 shares of Preferred Stock, par value \$10.00.	
The Batopilas Mining Company	
1188 shares of Capital Stock, par value \$20.00.	
Butte Copper Consolidated Mines	
500 shares of Capital Stock, par value 50c.	
Kruger and Toll Company	
200 American Certificates	
St. Louis-San Francisco Railway Company	
50 shares of Preferred Non-cumulative 6% stock, par value \$100.00.	
Victory Gold Mines, Limited.	
500 shares of Capital Stock, par value \$1.00.	

## BONDS NOT APPRAISED

Batopilas Mining Company	
Certificate of Deposit for \$600.00 of 6% Bonds.	

## TRUST NOTES NOT APPRAISED

Edith E. Baer	Balance Due
\$5,000 dated October 26, 1925, due October 26, 1934, interest 6 1/2%. Secured by Lot 155, Square 155.....	\$ 4,440.00
Catherine H. Bauer	
\$12,000 dated October 22, 1925, due October 22, 1932, interest 6%. Secured by Lot 840. Square 2560.	
Note continued overdue .....	12,000.00

## TRUST ACCOUNTS

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<b>Joseph R. Branson</b>	
\$3,000 dated September 18, 1928, due September 18, 1931, interest 6½%. Secured by Lot 45, Square 358.....	3,000.00
Awaiting refinancing and payment.	
<b>Lizzie G. Brittain</b>	
\$7,500 dated March 25, 1925, due March 25, 1934, interest 7%. Secured by Lot 824, Square 2844.....	7,500.00
<b>Homer B. and Lena B. Butler</b>	
\$5,000 dated February 25, 1927, due February 25, 1935, interest 6%. Secured by Lot 106, Square 3101.....	5,000.00
<b>Irene Chapman</b>	
\$4,000 dated December 29, 1925, due December 29, 1931, interest 6%. Secured by Lot 827, Square 793. Note continued overdue.....	4,000.00
<b>Frances B. Davis</b>	
\$2,000 dated October 7, 1924, due October 7, 1933, interest 6½%. Secured by Lot 157, Square 1026.....	2,000.00
\$2,000 dated October 7, 1924, due October 7, 1933, interest 6½%. Secured by Lot 158, Square 1026.....	2,000.00
\$2,000 dated October 7, 1924, due October 7, 1933, interest 6½%. Secured by Lot 159, Square 1026.....	2,000.00
<b>Murray and Fannie Davis</b>	
\$5,000 dated March 13, 1926, due March 13, 1934, interest 6½%. Secured by Lot 116, Square 190.....	5,000.00
<b>Patrick and Mary J. Davis</b>	
\$556.74 dated June 20, 1928, due in monthly instalments of \$30.00, interest 7%. Secured by Lot 39, Square 190.....	353.55
<b>Walter Dyson</b>	
\$5,500 dated November 7, 1923, due November 7, 1934, interest 6%. Secured by Lot 26, Square 3093.....	5,138.27
<b>Zita E. Dyson</b>	
\$6,500 dated August 31, 1926, due August 31, 1932, interest 6%. Secured by Lot 36, Square 312. Note continued overdue.....	6,500.00
<b>Reverend William Harris</b>	
\$250 dated April 2, 1930, due April 2, 1931, interest 6%. Secured by Lot 95, Block 6, "Mount Pleasant".....	250.00
\$3,000 dated April 2, 1930, due April 2, 1933, interest 6%. Secured by Lot 95, Block 6, "Mount Pleasant." Notes continued overdue.....	3,000.00
<b>George E. C. and Louise A. Hayes</b>	
\$1,499.08 dated February 7, 1929, Payable \$100.00 per month on interest and principal, interest 6%. Secured by Lot 56, Square 153.....	983.45
<b>Joseph F. and Mary E. Holland</b>	
\$2,800 dated July 16, 1923, due July 16, 1932, interest 6½%. Secured by Lot 182, Square 235.....	2,800.00
\$2,800 dated July 16, 1923, due July 16, 1932, interest 6½%. Secured by Lot 187, Square 235. Notes continues overdue.....	2,800.00
\$2,800 dated July 16, 1932, due July 16, 1934, interest 6½%. Secured by Lot 184, Square 235.....	2,800.00



Ida H. Lewis	
\$3,200 dated October 15, 1929, due October 15, 1935, interest 6%. Secured by Lot 131, Square 365.	3,000.00
Nannie M. H. Phillips	
\$500 dated December 17, 1929, due December 17, 1933.	
\$5,000 dated December 17, 1929, due December 17, 1933, interest 6%. Secured by Lot 89, Square 96.	5,500.00
Annie J. Porter	
\$3,000 dated November 6, 1925, due November 6, 1932, interest 6%. Secured by Lots 144 and 145, Square 1026. Note continued overdue	3,000.00
M. H. Richmond	
\$11,000 dated January 9, 1925, due January 9, 1934, interest 6½%. Secured by Part of Lot 12, Square 35. Principal payable in monthly instalments of \$75.00	9,950.00
James H. and Harriet Richmond	
\$5,000 dated November 9, 1926, due November 9, 1933, interest 7%. Secured by Lot 65, Square 3119.	4,750.00
Esta G. Shelby	
\$6,801.12 dated January 21, 1925, due January 21, 1934, interest 6%. Secured by Parcel 141½ "Youngsborough".	4,000.00
Nathan Slavsky	
\$6,000 dated October 4, 1926, due October 4, 1934, interest 6%. Secured by Lot 22, Square 958.	6,000.00
Arthur Sparrow	
\$4,500 dated October 16, 1928, due February 4, 1934, interest 6½%. Secured by Lot 37, Square 511.	4,500.00
\$1,011.90 dated April 16, 1931, due in monthly instalments of \$25.00 on interest and principal. Interest 6½%, Secured by Lot 37, Square 511.	889.51
Sophie Stelzer	
\$2,200 dated October 8, 1927, due October 8, 1933.	
\$2,200 dated October 8, 1927, due October 8, 1933. Interest 6%, Secured by Part of Lot 1, Square 414.	4,400.00
Turner C. Thompson	
No. 10 of 12 for \$200, dated April 1, 1922, due October 1, 1924	
No. 11 of 12 for \$200, dated April 1, 1922, due January 1, 1925	
No. 12 of 12 for \$800, dated April 1, 1922, due April 1, 1925. Secured by tract in Germantown, Montgomery County, Maryland. Payable in monthly instalments of \$15.00 on interest and principal. Interest 6%. Notes continued overdue	1,031.58
Lawrence J. Waggaman	
\$5,000 dated June 15, 1925, due June 15, 1934, interest 6%. Secured by lot 17, Square 82.	5,000.00
E. D. Williams	
\$4,000, dated June 24, 1931, due June 24, 1934. Interest 6%, Secured by Lot 44, Square 395	4,000.00

## TRUST ACCOUNTS

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Joseph C. Zirkle

\$282.00 dated September 23, 1926, due in sixty days. Interest 6%. Secured by first trust note of Paul Spadacino, dated December 4, 1925, at 6½%. Lot 63, Square 3874. Note continued overdue

266.08

## REAL ESTATE NOT APPRAISED

Lot 94, Square 3102, Premises 50 Randolph Place, N. W., formerly the Peyton G. Nevitt Notes. Property is now in the name of The University.

## REMAINDERMAN INTEREST

As residuary legatee of the late Richard E. Pairo as created by article eleven (11) of his last will and testament

\$28,000.00

\$127,852.75

## LEWIS MEDICAL SCHOOL FUND INVESTMENTS

## BONDS

	Book Value
Chesapeake and Potomac Telephone Co. of Virginia	
\$1,000 5% First Mortgage 30 year Sinking	
Fund Gold Bond, Series "A", due 1943	\$1,015.00
Federal Land Bank Bonds	
\$1,000 4¾% Federal Farm Loan on Federal	
Land Bank of Baltimore, due 1953	1,000.00
\$1,000 4½% Federal Farm Loan on Federal	
Land Bank of Louisville, due 1943	1,008.75
	<u>\$3,023.75</u>

## REAL ESTATE

Lewis Properties, 1406-8-10 P Street, and 1416-18 and 1502 14th Street, N. W., Subject to Trust Notes payable in the amount of \$45,000, interest 5½% due October 30, 1933

145,000.00

\$148,023.75

## Powell Scholarship Fund Investments

Powell House, 1707 I Street, N. W.

\$30,000.00

## Spencer Scholarship Fund Investments

Spencer Farm, Knox County, Illinois

\$18,135.00

## Byron Andrews Memorial Scholarship Fund Investments

Elmer W. Brandes Note

Number 3 of 3, secured by deed of trust on Lot 25, Square 1938, interest 5½%, due July 16, 1935.

\$3,000.00

## REPORT OF THE COMPTROLLER

## Morris Ross Notes

Numbers 5 and 6 of 8, secured by deed of trust on  
Lot 24, Square 180; interest  $5\frac{1}{2}\%$ , due April  
15, 1934.....

2,000.00

Notes held in trust by American Security and Trust Company,  
Trustees of the fund.....

\$5,000.00

## Elma Lewis Harvey Scholarship Fund Investments

## Pauline V. Beyer Note

Number 6 of a series of 66, secured by Lot B and Alley H,  
Square 376; interest  $5\frac{1}{2}\%$ , due December 17, 1931....

5,000.00

## Sharpe Medical School Fund Investments

## John F. Burns Note

Secured by deed of trust on lots 50, 51, 52, and 53, Square 8,  
"Washington Heights"; interest 6%, due October 2, 1935.  
Held in trust by National Savings and Trust Co., Trustee...

8,000.00

TOTAL GENERAL ENDOWMENT FUNDS INVESTMENTS—EXHIBIT "A" \$2,100,762.89

## SCHEDULE No. 26

## EXECUTORY TRUST FUNDS INVESTMENTS

As at August 31, 1933

## BONDS

	Book Value
Commonwealth of Australia	
\$12,000 5% External Loan, due 1957.....	\$11,775.00
Fruit Growers Express Co.	
\$10,000 $4\frac{1}{4}\%$ Equipment Trust; Series "H", due 1943.....	9,325.00
Pacific Gas and Electric Co.	
\$5,000 $4\frac{1}{2}\%$ First and Refunding Mortgage Bond, due 1960.....	4,900.00
Pennsylvania Company	
\$10,000 $4\frac{3}{4}\%$ Secured Gold Bonds, due 1963....	9,875.00
Potomac Electric Power Co.	
\$2,000 5% Consolidated Mortgage Gold Bonds, due 1936.....	2,028.75
	<u>\$37,903.75</u>

## TRUST NOTES

## Fidelity Storage Company Notes

Numbers 1, 15, 22, 23, 28, 33, 34, 35, 48, and 55  
of 63, secured by deed of trust on lot 58, square  
205; interest  $5\frac{1}{2}\%$ , due June 24, 1934.....

22,000.00

TOTAL EXECUTORY TRUST FUNDS INVESTMENTS—EXHIBIT "A".... \$59,903.75



# SUMMARY OF TRUST FUNDS INVESTMENTS AND UNINVESTED CASH

August 31, 1933

## TRUST ACCOUNTS

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General Endowment Funds	Stocks	Bonds	Trust Notes	Real Estate	Certificate of Deposit	Jewelry	Cash	Total
Consolidated Endowment Funds	\$23,391.56	\$257,008.23	\$397,910.24	\$46,924.70	\$150.00		\$3,378.88	\$728,763.60
Scottish Rite Endowment Fund		599,618.30					381.70	600,000.00
Thomas Bradford Sanders Fellowship Fund	67,145.00	30,223.87	81,757.00			\$92.00	92.57	179,510.44
Richard E. Pairo Fund—Athletics	232,538.25	149,645.00					103.81	382,287.06
Lewis Medical School Fund		3,023.75		100,000.00			280.40	101,304.15
Powell Scholarship Fund				30,000.00				30,000.00
Spencer Scholarship Fund				18,135.00				18,135.00
Byron Andrews Memorial Scholarship Fund			5,000.00					5,000.00
Elma Lewis Harvey Scholarship Fund			8,000.00					8,000.00
Sharpe Medical School Fund								
TOTAL EXHIBIT "A"	\$323,274.81	\$1,039,519.14	\$497,667.24	\$195,059.70	\$150.00	\$92.00	\$4,237.36	\$2,060,000.35
EXHIBITORY TRUST FUNDS—EXHIBIT "A"		37,903.75	32,000.00				13,681.46	73,585.21
TOTAL ALL FUNDS	\$323,274.81	\$1,077,422.89	\$519,667.24	\$195,059.70	\$150.00	\$92.00	\$17,918.82	\$2,133,585.46

## REPORT OF THE COMPTROLLER

SCHEDULE NO. 27  
GENERAL ENDOWMENT AND EXECUTORY TRUST FUNDS  
INCOME AND EXPENSE  
For the Year Ended August 31, 1913

	INCOME		EXPENSE					UNEX- PENDED INCOME	
	Balance Aug. 31, 1912	Income For the Year	Trans- ferred to General Funds	Added to Principal	Trans- ferred to Schools Income	Prizes and Scholarships	Trans- ferred to Hospital Income		Real Estate Expense
Cocoran Fund		\$1,348.02	\$1,348.02						\$1,045.51
Alumni Endowment Fund		21.10	21.10						38.93
1923-24 Campaign Fund		7,264.97	7,264.97						13,052.34
George N. Allen Fund		11.67	11.67						113.13
Trueman Fund		761.68	761.68						1,648.62
Congressional Professorship Fund		170.32			\$170.32				10.55
Alumni Professorship Fund		32.29	32.29						194.65
Medical Carroll Professorship Fund		19.47	19.47						194.65
Navy Yelver Endowment Fund	\$850.89	38.93							509.22
Art and Architecture Fund		25,227.86							32.43
Scott and Fair Endowment Fund		98.34							1,974.13
Ward Professorship Fund		14.79			21,700.00				311.39
Kennel Scholarship Fund		175.19							146.65
Davis Scholarship Fund		8.99							194.65
Founders of Columbian Women Scholarship Fund		236.79				\$226.79			194.65
Ellen M. E. Woodruff Scholarship Fund		50.70				25.00			49.06
The Tillam Young Hutton Scholar- ship Fund		284.15				284.15			194.65
Byron Andrews Memorial Scholar- ship Fund		447.41							509.22
Davis Professor Scholarship Fund		32.43				200.00			32.43
Powell Scholarship Fund		2,601.14			2,000.00				1,974.13
Mary L. Stone Scholarship Fund		311.39						2,720.65	311.39
Nellie M. Knapp Scholarship Fund		226.79							146.65
Elma Lewis Harvey Scholarship Fund		1,026.51				274.79			1,127.71
E. V. Brown Scholarship Fund		54.43				160.00			54.43
College Women's Memorial Fund		22.68				54.43			46.72
Robert M. M. W. Memorial Scholarship Fund		13,350.56				22.68			14,000.47

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THIRD DIVISION  
SELF-SUPPORTING DEPARTMENTS  
FOR THE YEAR ENDED  
AUGUST 31, 1933

## REPORT OF THE COMPTROLLER

SCHEDULE No. 28  
THE GEORGE WASHINGTON UNIVERSITY  
THIRD DIVISION SELF-SUPPORTING DEPARTMENTS  
BALANCE SHEET—AUGUST 31, 1933

<i>Assets</i>	
Current Assets:	
Cash on Deposit .....	\$2,477.26
Duplicating Bureau Depreciation Fund .....	500.00
Inventory—The University Stores .....	21,046.18
Inventory—The Duplicating Bureau .....	128.67
	<u>\$24,152.11</u>
Fixed Assets:	
Equipment—The Duplicating Bureau .....	\$2,844.94
Less—Reserve for Depreciation .....	1,198.85
	<u>1,646.09</u>
	<u>\$25,798.20</u>
<i>Liabilities and Surplus</i>	
Liability of The Duplicating Bureau to The University .....	\$1,468.11
Liability of The University Stores to The University .....	6,690.00
Deferred Income:	
Law Review .....	\$23.00
Glee Club .....	989.04
Student Band .....	236.28
	<u>1,248.32</u>
Surplus—Schedule No. 30 .....	<u>16,384.89</u>
	<u>\$25,798.20</u>

SCHEDULE No. 29  
THE GEORGE WASHINGTON UNIVERSITY  
THIRD DIVISION—STATEMENT OF INCOME AND EXPENSE  
For the Year Ended August 31, 1933

<i>Related Activities</i>	
The University Hatcher:	
Income:	
Advertising .....	\$5,633.94
Special Gifts .....	100.00
University Grant .....	9,000.00
	<u>\$14,733.94</u>
Expense:	
Salaries .....	\$1,680.00
Printing .....	8,953.52
Engraving .....	470.01
Circulation .....	797.32
Office Expense .....	281.18
Advertising .....	494.98
Miscellaneous .....	219.83
Photographic Supplies .....	96.49
	<u>12,993.33</u>
Net Income .....	<u>\$1,740.61</u>



# THIRD DIVISION

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## The George Washington Law Review:

### Income:

University Grant.....	\$1,150 00	
Advertising.....	228 65	
Subscriptions.....	1,420 46	
Reappropriation to No. 869.....	54 03	
		\$2,853 14

### Expense:

Salaries.....	\$700 00	
Printing.....	1,898 18	
Circulation.....	150 00	
Office Expense.....	70 31	
Miscellaneous.....	248 90	
		3,067 39

Net Expense..... 214 25\*

## Glee Club:

### Income:

University Grant.....	\$1,600 00	
Gate Receipts.....	239 50	
Reappropriation to No. 876.....	542 30	
		\$2,381 80

### Expense:

Salaries.....	\$1,500 00	
Expense.....	881 80	
		2,381 80

## Student Band:

### Income:

University Grant.....	\$600 00	
Donations.....	97 00	
Deferred Income 1931-32.....	1,027 86	
		\$1,724 86

### Expense:

Salaries.....	\$600 00	
Expense.....	424 95	
Repairs to Equipment.....	59 20	
		1,084 15

Net Income..... \$640.71

## Forensics and Dramatics:

### Income:

University Grant:		
Debating.....	\$750 00	
Dramatics.....	350 00	

### Gate Receipts:

Plays.....	613.85	
		\$1,713 85

\*Indicates Deduction.

## REPORT OF THE COMPTROLLER

## Expense:

Debating.....	\$441.45	
Plays.....	1,124.42	
		<u>1,565.87</u>

## Net Income.....

## Student Council:

## Income:

University Grant.....	\$175.00	
Sale of Caps.....	349.25	
Home Coming Ball.....	483.00	
Dances.....	105.65	
Reappropriation to No. 893.....	192.28	
		<u>\$1,305.18</u>

## Expense:

Home Coming Ball.....	\$688.53	
Other Expense.....	650.34	
		<u>1,338.87</u>

## Net Expense.....

## Men's Athletics:

## Income:

University Grant.....	\$19,150.00	
Gate Receipts.....	45,631.58	
Guarantees.....	4,231.35	
		<u>69,012.93</u>

## Expense:

Salaries.....	\$3,443.50	
Football.....	58,789.53	
Basketball.....	6,480.55	
Rifle.....	498.38	
Swimming.....	1,000.00	
Tennis.....	231.53	
Golf.....	89.08	
Awards.....	810.70	
Office Expense.....	444.03	
Supplies.....	234.27	
Refunds of Gate Receipts.....	16,620.71	
Renovating and Laundry.....	643.56	
		<u>89,285.84</u>

## Net Expense.....

## Deficit from Related Activities.....

20,272.91\*

\$17,991.58

## Self-Supporting Departments

## The Cherry Tree:

## Income:

Subscriptions.....	\$1,336.00	
Organizations.....	1,613.19	
Photography.....	1,069.50	
		<u>\$4,018.69</u>

\*Indicates deduction

## THIRD DIVISION

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## Expense:

Salaries.....	\$500.00	
Printing and Engraving.....	3,517.90	
Miscellaneous.....	150.74	
	<u>4,168.64</u>	

Net Expense..... \$149.95\*

## University Stores:

## Income:

Sales..... \$35,073.52

## Deduct Cost of Sales:

Inventory, August 31, 1932.....	\$12,020.69
Purchases.....	39,542.64

Inventory, August 31, 1933.....	\$51,563.33
	<u>21,046.18</u>

30,517.15

Gross Profit on Sales..... \$4,556.37

## Deduct Expense:

Salaries.....	\$1,811.60
Advertising.....	30.00
	<u>1,841.60</u>

Net Income..... 2,714.77

## The Duplicating Bureau:

## Income:

Sales..... \$6,651.49

## Deduct Cost of Sales:

Supplies Inventory, August 31, 1932.....	\$25.00
Supplies Purchased.....	2,103.83

Supplies Inventory, August 31, 1933.....	\$2,128.83
	<u>128.67</u>

Cost of Supplies Used..... \$2,000.16

Salaries.....	2,260.59
Repairs to Equipment.....	44.70
Depreciation on Equipment.....	284.49
	<u>4,589.94</u>

Net Income..... 2,061.55

## Hospital Services:

## Income:

Receipts..... \$12,811.07

## Expense:

Payments..... 11,523.35

Net Income..... 1,287.72

\*Indicates deduction

## REPORT OF THE COMPTROLLER

## Troubadours:

## Income:

Gate Receipts .....	\$800.90
---------------------	----------

## Expense:

Plays .....	1,636.46
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Net Expense .....	855.56
-------------------	--------

Net Income of Self-Supporting Departments .....	\$5,058.53
-------------------------------------------------	------------

## SCHEDULE No. 30

## THIRD DIVISION—ANALYSIS OF SURPLUS ACCOUNT

For the Year Ended August 31, 1933

Surplus—August 31, 1932 .....	\$10,511.50
-------------------------------	-------------

## Additions to Surplus:

Profit of Self-Supporting Departments .....	\$5,058.53
---------------------------------------------	------------

Deficit of Related Activities made good by General Funds .....	17,991.55
----------------------------------------------------------------	-----------

From General Funds for Band Equipment .....	640.71
---------------------------------------------	--------

Troubadours Surplus at time of assumption of control of income and expenditure by The University .....	814.79
--------------------------------------------------------------------------------------------------------	--------

24,505.58

\$35,017.08

## Deductions from Surplus:

Deficit of Related Activities .....	\$17,991.55
-------------------------------------	-------------

Band Equipment transferred to General Funds .....	640.71
---------------------------------------------------	--------

18,632.26

Surplus—August 31, 1933 .....	\$16,384.82
-------------------------------	-------------

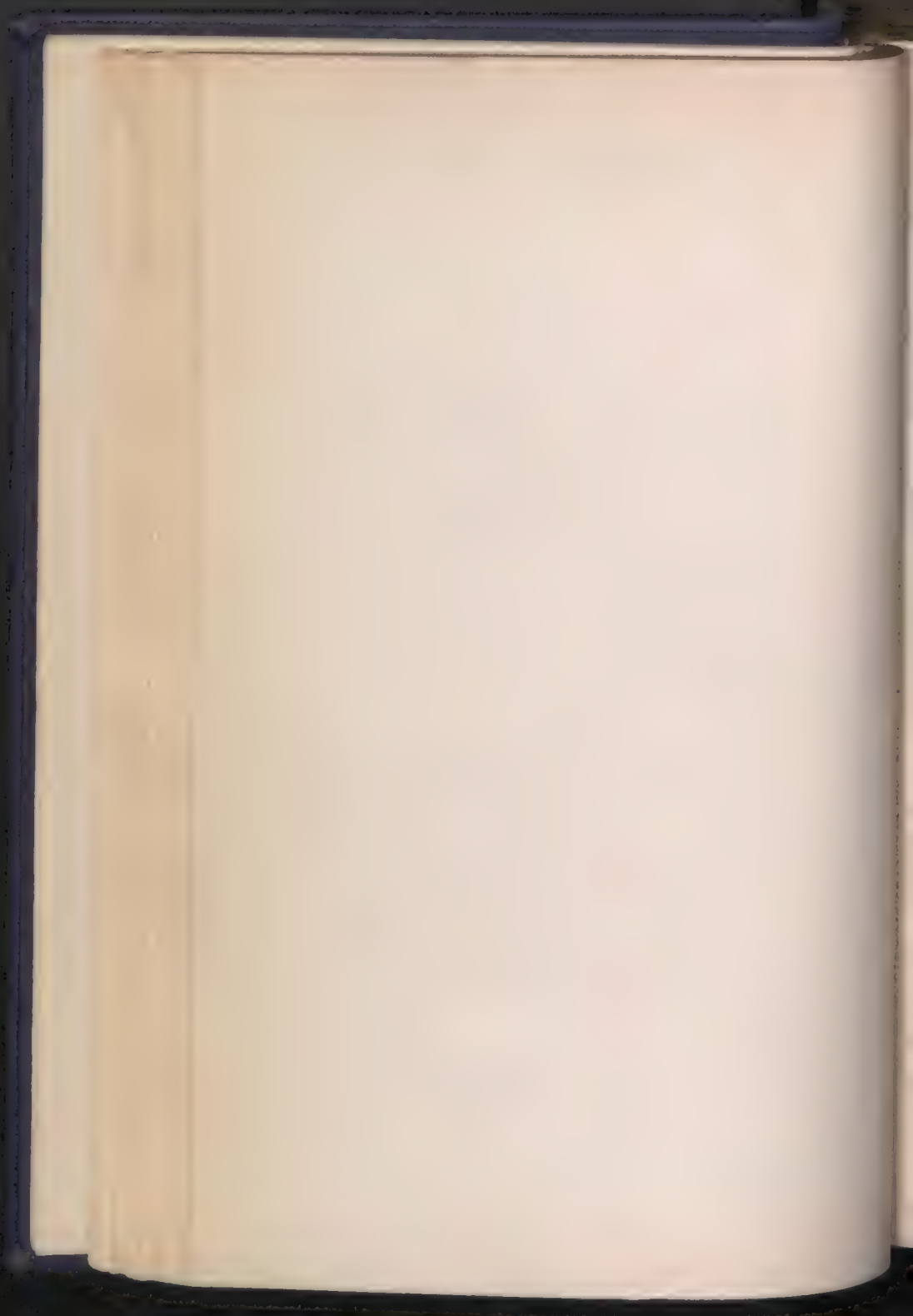
\* Indicates deduction.



THE GEORGE WASHINGTON UNIVERSITY  
REPORT OF THE COMPTROLLER  
For the Year Ended August 31, 1933

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The  
George Washington  
University

The Employed Student

FIRST SEMESTER

September 20, 1933, to January 27, 1934

SECOND SEMESTER

February 2, 1934, to June 2, 1934



WASHINGTON, D. C.

1933

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WASHINGTON, D. C.

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## THE EMPLOYED STUDENT

For a half century The George Washington University has so arranged its courses that the facilities offered by the University would be available to the employed student to the greatest possible extent. Those students whose hours of employment permit them to take forenoon and early afternoon courses take the courses regularly carried by full-time students. For those, however, who are employed during the greater part of the day, practically all courses given earlier in the day are repeated after five o'clock in the afternoon.

The University welcomes also men and women over twenty-one years of age, who come to it, not in candidacy for degrees, but with a desire to utilize leisure hours profitably or to improve themselves in their occupational life by taking one or more courses in the University. Students in this category are known as "University Students" and are permitted without reference to formal admission requirements to enter such classes as they can pursue with advantage. If at a later time they desire to become candidates for a degree, credits previously earned to the extent of thirty semester-hours may be applied toward the degree.

### Courses After Five O'Clock

The following Colleges, Schools, and Divisions offer courses after five o'clock, leading to degrees and certificates, during the two semesters and the summer session:

#### The Junior College

- a. Two-year curricula leading to the Junior Certificate only
  1. General
  2. Business and Secretarial

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**b. For Admission to Columbian College**

1. Arts and Letters
2. Science: Botany, Geology, Zoology
3. Science: Chemistry, Mathematics, Physics

**c. Basic curricula in preparation for admission to the professional Schools**

1. Education
2. Home Economics
3. Physical Education
4. Prelegal
5. Government
6. Library Science
7. Architecture
8. Art
9. Pharmacy
10. Premedical

**Columbian College**

**a. Bachelor of Arts**

1. General curriculum
2. Combined curriculum: Bachelor of Arts and Bachelor of Laws in conjunction with the Law School
3. Combined curriculum: Bachelor of Arts and Doctor of Medicine in conjunction with the Medical School. No late afternoon classes are given in the Medical School

**b. Bachelor of Science**

1. Botany, Geology, and Zoology
2. Chemistry, Mathematics, and Physics

**c. Master of Arts**

**The Graduate Council**

**Doctor of Philosophy**

**The Law School**

**a. Bachelor of Laws**

**b. Master of Laws**

### **The School of Engineering**

- a. Bachelor of Science in Civil Engineering
- b. Bachelor of Science in Electrical Engineering
- c. Bachelor of Science in Mechanical Engineering
- d. Bachelor of Science in Engineering
- e. Combined curriculum: Bachelor of Science in Engineering and Bachelor of Laws (in conjunction with the Law School)
- f. Professional degrees of Civil Engineer, Electrical Engineer, and Mechanical Engineer

### **The School of Education**

- a. Bachelor of Arts in Education
- b. Bachelor of Science in Home Economics
  - 1. General Home Economics
  - 2. Food and Nutrition
  - 3. Clothing and Textiles
  - 4. Home-Economics Education
- c. Bachelor of Science in Physical Education

### **The School of Government**

- a. Bachelor of Arts
  - 1. Government
  - 2. Business Administration
  - 3. Finance
  - 4. Domestic Commerce
  - 5. Foreign Service
  - 6. Foreign Commerce
- b. Master of Arts

### **The Division of Library Science**

- a. Bachelor of Arts in Library Science
- b. Master of Arts in Library Science

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WASHINGTON, D. C.

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### The Division of Fine Arts

- a. Bachelor of Arts
  - 1. Architecture
  - 2. Building
  - 3. Building Administration
  - 4. Illustration
  - 5. Art
- b. Bachelor of Architecture
- c. Bachelor of Fine Arts
- d. Master of Arts
- e. Master of Fine Arts

### Amount of Work

There is no minimum requirement of the amount of work carried. For complete students normal work is nine semester-hours.

### Fees

For complete information as to fees see pages 55-59 of the general catalogue.

All students pay a University fee per semester, tuition fees at the rate of \$1.00 per semester-hour (except in the Schools of Medicine and candidates for the Ph.D. degrees), and such special fees, laboratory fees, and deposits as are set forth in the general catalogue.

Fees are payable for each semester in advance. Students may, with the Registrar's permission, pay their tuition in three instalments during the semester. University fee and laboratory deposits are paid at the time of registration.

### Admission and Registration

Applicants should obtain from the Division of Admissions, fill out, and file an application.

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for admission. They should also have sent in directly from the high school or preparatory school attended, the information required, on the regular form for this purpose, which should be obtained from the Director of Admissions. Colleges previously attended should be requested to send in transcripts of record directly to the Director of Admissions.

While the regular days for registration are September 18 and 19, it is desirable to complete preliminary stages of registration before that time.

On and after September 5 the Director of University Students will be available for consultation in his office, second floor, 700 Twentieth Street NW., from 9 to 12 and 3 to 5 daily.

### Catalogues

Copies of the catalogue, containing full information, may be obtained, upon request, from the Director of Admissions, The George Washington University, 2031 G Street NW., Washington, D. C.

# GEORGE WASHINGTON UNIVERSITY

## HISTORY

WASHINGTON, D. C.

1934

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The  
George Washington  
University

Courses in Education

FIRST SEMESTER

September 20, 1933, to January 27, 1934



WASHINGTON, D. C.

1933

WASHINGTON, D. C.

1934

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HISTORY

# SCHEDULE IN EDUCATION 1933-34

Hour	No.		MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
9.10 a.m.	115	History and Principles							
11.10 a.m.	151	The High School							
5.10 p.m.	101	Psychology of Learning							
5.10 p.m.	111	History of Education							
5.10 p.m.	152x	The Junior High School							
6.10 p.m.	185	School Administration							
4.10 p.m.	175	Teaching of English							
5.10 p.m.	201	Seminar: Educational Subjects							
6.10 p.m.	289	Seminar: Administration							
6.10 p.m.	119	Philosophy of Education							
7.30 p.m.	291	Conference on Theoretical							
7.30 p.m.	279	Seminar: Teacher Education							
7.30 p.m.	211	Seminar: Educational Methods							
7.30 p.m.	149	Curriculum Conference							
7.30 p.m.	233	Seminar: Educational Research							
9.10 a.m.	113	History of American Education							
9.10 a.m.	147	Elementary-School Education							
9.10 a.m.	251	Seminar: Secondary Education							
11.10 a.m.	155	Guidance in Secondary Education							
11.10 a.m.	249	Seminar: Curriculum Development							
11.10 a.m.	281	Seminar: Administration							
	129	Observation and Criticism							
	217	Seminar: American Education							
	283	Research Problems							



# EDUCATION 1933-34

## MONDAY AND FRIDAY

	Credit	Instructor
Principal	3	Ruediger
School	3	Powers
Learning	3	Dreese
Education	3	Cooper
High School	3	Powers
Instruction	3	Cooper

## TUESDAY

English	2	French
Instruction	3	Dreese
Administration	3	Powers

## WEDNESDAY ANOTHER HOUR

Education	3	Ruediger
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Thesis	3	Staff
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Teacher	3	Ruediger
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Education	3	French
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Conferences	2	French
Education	3	Dreese

Methods	2	Cooper
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School	2	French
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Education	3	Powers
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Instruction	2	Dreese
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Education	3	French
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Instruction	3	Cooper
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NGED	3	Coyner
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Education	3	French
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Education	3	Ballou
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## HISTORY

WASHINGTON, D. C.

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## THE SCHOOL OF EDUCATION

The School of Education takes pleasure in directing special attention to the appointment of Dr. William John Cooper as Professor of Education.

Dr. Cooper has served as United States Commissioner of Education, as State Superintendent of Public Instruction in California, as Superintendent of Schools in Piedmont, Fresno, and San Diego, California. He has twelve years of high-school teaching experience to his credit, and he has served as lecturer in the University of California and in the State Teachers College at Fresno.

Dr. Cooper will devote his energies chiefly to the development of courses in Educational Administration and in Comparative Education.

By attending afternoon, Saturday, and summer classes, teachers in the schools of Washington and vicinity may complete all the requirements for a degree without giving up their positions.

The following degrees may be earned in the School of Education: A.B. in Education, B.S. in Home Economics, B.S. in Physical Education, Master of Arts (A.M.), and Doctor of Education (Ed.D.).

The degree of Doctor of Philosophy (Ph.D.) with the major or minor in Education is under the jurisdiction of the Graduate Council.

Special Method courses are offered in English, Home Economics, Mathematics, Romance Languages, and the Social Studies.

Students taking Saturday classes must register on September 23 without paying the late-registration fee.

For descriptions of courses the reader is referred to the general catalogue of the University, copies of which may be obtained upon request, from the Director of Admissions, The George Washington University, 2031 G Street N.W., Washington, D. C.

The  
George Washington  
University

Division of University and  
Extension Students

Camp Leadership Course  
SECOND SEMESTER  
February 8 to May 24, 1934

*Conducted by*  
THE DEPARTMENT OF PHYSICAL EDUCATION  
FOR WOMEN  
*in cooperation with*  
THE COUNCIL OF SOCIAL AGENCIES OF  
WASHINGTON, D. C.

WASHINGTON, D. C.  
1934

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### AIM OF THE COURSE

The course aims to train those persons who are or wish to be leaders in the camping movement. It is planned to meet the needs of students who wish training as camp counselors and to be helpful to camp administrators, to municipal and recreational authorities, to playground teachers, to public school officials and teachers, and to all who are interested in outdoor life as an important phase of education and recreation.

### DESCRIPTION OF THE COURSE

The group will meet each Thursday evening during the second semester. Half of the meetings will be devoted to lectures and discussions on camping problems and the other half to study and practice of pioneer camping, or camp-craft as it is sometimes called. The training in pioneer camping is being offered as a result of the requests for many camp directors both for general camp counselors trained in this line and for specialized counselors fitted to direct this activity in camp. Pioneer camping is playing a more and more vital part in camps of today.

### CONTENT OF THE COURSE

There will be seven meetings devoted to lectures and discussions which will include information on the following topics: survey of the past and contemporary history of the camping movement; program-making; counselor qualifications; administrative problems; buildings and equipment; water-supply layout; standards of health and safety; testing programs; psychological interpretations of the adolescent; camp music; camp libraries; bibliographies.

The seven meetings devoted to pioneer camping will cover practice and study in



following subjects: firebuilding; cooking in the open; use of hatchet, axe, and knife; sleeping equipment; natural shelters; menus and provisions; and wilderness First Aid. The preliminary work will be done indoors and whenever the weather permits the class will meet out-of-doors by artificial light at the regular meeting hour of the group which is from 7 to 9 on Thursday evenings. Each student will need a knife and a hatchet which may be purchased at approximately \$1.50 in case new ones have to be obtained.

#### STAFF

Director of the Course—Miss Ruth H. Atwell, Director of Physical Education for Women, George Washington University.

Director of the Pioneer Camping Section—Mr. D. D. Withers, Director of Bear Trail Camp for Boys.

The policy of bringing leaders of national reputation in the various fields of camping to the course for lectures will be continued.

#### SCHEDULE

Dates of Meetings: February 8, 15  
March 1, 8, 15, 22, 29  
April 5, 12, 19, 26  
May 3, 10, 17, 24

Time of meetings—Seven to nine p.m., on Thursdays.

Place of meetings—Room 10, Corcoran Hall, The George Washington University, 21st Street, between G and H St., N. W.

#### CREDIT

Those who wish to take the course for University credit must attend at least 12 out of the 15 meetings, hand in assigned

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## HISTORY

WASHINGTON, D. C.

1934

reference readings, and pass the examination at the end of the course. One semester-hour credit is given in the School of Education. The fee is the same whether or not the course is taken for credit.

Those who prefer may omit the meetings which offer training in pioneer camps. In this case no university credit is given but a Certificate will be issued stating that the other half of the course has been satisfactorily completed.

#### TUITION

Tuition fee, \$8.00. University fee for extension students, \$2.00. This makes the fee for students registered in the University for other courses, \$8.00 and the fee for those registered for this course only, \$10.00.

#### HOW TO REGISTER

The registration period for the second semester is on Wednesday, and Thursday, January 31st and February 1st, in Coreana Hall. Students in the University must register during this period. Others may register and pay the fee at the first meeting of the class on February 8.

The catalogue number of this course is Physical Education E118.

#### ELIGIBILITY

To register for the course you must be a college student or over 18 years of age. Others may apply to Miss Atwell, Director of the Course, for special permission. The course is open to both men and women.

#### INFORMATION

Any further information may be obtained from Miss Atwell at The George Washington University, National 6462.

THE  
GEORGE  
WASHINGTON  
UNIVERSITY  
BULLETIN

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RUSSIAN LANGUAGE AND HISTORY



WASHINGTON, D. C.

1934

THE  
NEW YORK  
PUBLIC LIBRARY  
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1894





## RUSSIAN LANGUAGE AND HISTORY

The recent resumption of diplomatic and commercial relations with the Union of the Soviet Republics has brought to the fore the importance of renewed attention to Russian affairs. The importance of Russia in international economic relations and as a prospective market or source of raw materials for the industrial nations is everywhere recognized. In our Government service there will doubtless be increasing need of diplomatic and consular agents equipped with a knowledge of Russian.

Aside from economic and international political relations the importance of the Russian language is widely recognized as a vehicle of science and culture. The contributions of Russian scholars to economics, psychology, mathematics, statistics, biology, chemistry, and to medical sciences is being brought to the attention of the western world in greater measure every year. Such writers as Dostoievski, Turgenev, and Chekhof, among the older writers, and Sholkhof and Romanov among contemporary authors, have aroused the attention of men of letters everywhere. The study of the Russian language is particularly timely for American college students.

The George Washington University announces that during the coming academic year courses in the Russian language and in Russian history will be provided. The courses listed on the following page are accordingly being scheduled.

## RUSSIAN LANGUAGE

Russian 1-2: *First-Year Russian* (3-3)  
Mon., Wed., and Fri., 5.10 p.m.

Kolesnikoff

Russian 5-6: *Second-Year Russian* (3-3)  
Mon., Wed., and Fri., 6.10 p.m.

Kolesnikoff

Russian 107-8: *Advanced Russian* (3-3)

Kolesnikoff

Scientific, economic, and commercial material. Hours  
to be arranged.

NOTE.—Russian 1-2 and 5-6 will be accepted as satisfying  
the Junior College requirements in foreign language.

## RUSSIAN HISTORY

History 114: *History of Modern Russia* (3)

Ragan

Prerequisite: History 38. Tues., Thurs., and Sat.  
5.10 p.m.

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For further information address The Director of Admissions,  
The George Washington University, 2033 G Street  
NW., Washington, D. C.

LA UNIVERSIDAD  
DE  
GEORGE  
WASHINGTON  
BOLETIN

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Centro de Estudios Interamericanos



WASHINGTON, D.C.

1934

## CENTRO DE ESTUDIOS INTERAMERICANOS DE LA UNIVERSIDAD DE GEORGE WASHINGTON

Cloyd Heck Marvin, Ph.D., LL.D., *Presidente de la Universidad.*

Alva Curtis Wilgus, Ph.D., *Director del Centro.*

Debido a su situación en el corazón de la Capital de la Nación, la Universidad de George Washington se encuentra capacitada para ofrecer ciertas clases de trabajo académico y promover y fomentar ciertos estudios que gozan de las ventajas especiales que ofrecen el Gobierno Federal, la Biblioteca del Congreso, la Unión Panamericana, las diversas embajadas y legaciones, y otras instituciones que funcionan en Washington. Estas ventajas se manifiestan principalmente en el trabajo que se relaciona con las naciones de América. Este Centro se propone valerse de estas múltiples oportunidades no solamente ofreciendo cursos regulares y conferencias especiales, sino también impulsando trabajos de investigación bajo dirección experta y la publicación de estudios bien documentados en el amplio campo de los problemas interamericanos. El Centro se propone además facilitar el intercambio de estudiantes universitarios y catedráticos y fomentar una cooperación más estrecha en materias históricas, bibliográficas, científicas, filosóficas, artísticas, y literarias. En esta forma se espera lograr relaciones académicas y culturales más íntimas con los alumnos, eruditos, e instituciones educacionales de los demás países de América y con los estudiantes de los Estados Unidos que deseen poseer una comprensión más amplia y un conocimiento más preciso de la historia, el pensamiento, y la cultura de las Américas.

Para la mejor realización de estos fines se ha asociado a la Facultad un Consejo de especialistas que residen en Washington y en sus cercanías, quienes de vez en cuando dictarán conferencias sobre diversos temas de interés. Este Consejo también actuará en calidad de junta consultiva y tendrá el deber de preparar el programa de actividades del Centro. Sus funciones específicas consisten en hacer recomendaciones sobre los siguientes asuntos: cursos, proyectos, conferencias, y conferenciantes; la publicación de resultados de investigaciones que lo merezcan; el intercambio de catedráticos y alumnos; el establecimiento de becas y pensiones; la convocación de eruditos, la celebración de conferencias especiales, y el arreglo y vigilancia de los programas que se transmitan por radio; la indicación de métodos concretos para cooperar con asociaciones existentes que tengan fines semejantes a los de este Centro; la adopción de cualquiera medida necesaria para fomentar y facilitar todo aspecto de cooperación útil entre estudiantes de los países americanos; y la nominación ante las autoridades universitarias correspondientes de individuos de mérito excepcional a quienes se les deba conferir grados honoríficos. Además de los miembros del Consejo, se puede solicitar a los hombres de estudio de otras ciudades que presten sus servicios en calidad de consejeros y particularmente que ayuden a dirigir los trabajos de investigación en otros lugares. Según se presenten nuevas necesidades se aumentará el personal docente por medio de nombramientos del Consejo.



## MIEMBROS DEL CONSEJO Y PERSONAL DOCENTE

Heloise Brainerd, A.B., *Jefe de la Sección de Cooperación Intelectual, Unión Panamericana, Conferenciante.*

James Christopher Corliss, A.M., *Catedrático Auxiliar de Problemas Económicos Hispanoamericanos.*

George Howland Cox, A.B., *Conferenciante de Temas Hispanoamericanos de Actualidad.*

Henry Grattan Doyle, A.M., *Catedrático de Lenguas Romances.*

E. Gil Borges, LL.D., *Subdirector, Unión Panamericana, Conferenciante.*

Cecil Knight Jones, B.Litt., *Conferenciante de Literatura Hispanoamericana.*

Constantine E. McGuire, Ph.D., *Biblioteca del Congreso, Conferenciante.*

William Ray Manning, Ph.D., *Secretaría de Estado, Conferenciante.*

James A. Robertson, LL.D., *Universidad John B. Stetson, Conferenciante.*

Leo S. Rowe, Ph.D., LL.D., *Director General, Unión Panamericana, Conferenciante.*

James Brown Scott, LL.D., J.U.D., *Secretario de la Dotación Carnegie para la Paz Internacional, Conferenciante.*

Alva Curtis Wilgus, Ph.D., *Catedrático Asociado de Historia Hispanoamericana.*

## OTROS CONFERENCIANTES, 1933 Y 1934

Ricardo J. Alfaro, LL.D., *Ministro de Panamá.*

C. L. G. Anderson, M.D., *Ejército de los Estados Unidos, Oficial retirado.*

Wilfred Hardy Calcott, Ph.D., *Universidad de South Carolina.*

Isaac J. Cox, Ph.D., *Universidad Northwestern.*

W. E. Dunn, Ph.D., *Washington, D. C.*

Roscoe R. Hill, Ph.D., *Biblioteca del Congreso.*

Samuel Guy Inman, LL.D., *Universidad de Columbia.*

Leland H. Jenks, Ph.D., *Colegio de Wellesley.*

Chester Lloyd Jones, Ph.D., *Universidad de Wisconsin.*

Clarence Fielden Jones, Ph.D., *Universidad Clark.*

Percy A. Martin, Ph.D., *Universidad Stanford.*

William W. Pierson, jr., Ph.D., *Universidad de North Carolina.*

A. Grenfell Price, A.M., *Universidad de Adelaide, Australia.*

J. Fred Rippey, Ph.D., *Universidad Duke.*

H. Portell Vilá, LL.D., *Universidad de la Habana, Cuba.*

Gonzalo Zaldumbide, T.M.F., *ex-Ministro del Ecuador.*

## CURSOS DE ESTUDIO PARA ESTUDIANTES INTER- RESADOS EN ASUNTOS INTERAMERICANOS

Los siguientes departamentos por lo regular ofrecen cursos en inglés que tratan de asuntos interamericanos:

**BOTANICA:** 211-12, *La flora de la América Hispana*: curso de investigación (Griggs).

**ECONOMIA:** 109-10, *Geografía comercial* (Donaldson); 177-78, *Problemas económicos de la América Hispana* (Corliss); 181-82, *Relaciones económicas con el Canadá* (Donaldson); 191-92, *Relaciones económicas internacionales* (Donaldson); 251, *Seminario* (Donaldson); 291-92, *Seminario* (Donaldson).

**EDUCACION:** 190, *Educación comparada* (Cooper); 211-12, *Seminario para la discusión del origen de teorías educativas* (French).

**GEOLOGIA:** 217-18, *La geología hispanoamericana*: curso de investigación (Bassler).

**HISTORIA:** 105-6, *Historia de las relaciones exteriores de los Estados Unidos* (Bemis); 141, *Historia de la colonización moderna* (Ragatz); 155-56, *Origen y desarrollo del nacionalismo* (Kayser); 171-72, *Temas hispanoamericanos de actualidad* (Cox); 175-76, *Historia hispanoamericana* (Wilgus); 177, *Los grandes estados de la América Hispana* (Wilgus); 178, *El movimiento panamericano* (Wilgus); 181-82, *Historia canadiense* (Churchill); 197, *Seminario de asuntos hispanoamericanos* (Wilgus y profesores invitados); 209-10, *Pro-seminario del período revolucionario en la América Hispana* (Wilgus); 219-20, *Seminario de historia hispanoamericana* (Wilgus); 221-22, *Seminario de la historia diplomática de los Estados Unidos* (Bemis).

**HIGIENE Y MEDICINA PREVENTIVA:** 212, *Higiene* (Spencer); 301, *Medicina preventiva y sanidad pública* (la facultad).

**DERECHO:** 257-58, *Derecho internacional* (Murdock).

**PATOLOGIA:** 320, *Medicina tropical* (Vedder).

**CIENCIAS POLITICAS:** 171, *Organización internacional* (Johnstone); 179, *Relaciones internacionales* (Hill); 181-82, *Derecho internacional* (Hill); 195-96, *Instituciones políticas hispanoamericanas* (Wilgus); 197, *Seminario de asuntos hispanoamericanos* (Wilgus y profesores invitados); 281-82, *Seminario de derecho y relaciones internacionales* (Hill).

**SOCIOLOGIA:** 181-82, *Lecturas sobre sociología comparada* (Willard).

**ESPAÑOL:** 115-16, *Reseña general de la literatura española* (Doyle y Corliss); 121-22, *Literatura española en la Edad de Oro* (Doyle); 125-26, *Literatura española moderna* (Doyle); 127-28, *Literatura hispanoamericana* (Jones); 129, *Literatura de la Argentina y del Uruguay* (Jones); 130, *El movimiento modernista en Hispanoamérica* (Jones); 227-28, *Seminario de literatura hispanoamericana* (Jones).

**ZOOLOGIA:** 253-54, *La fauna de la América Hispana*: curso de investigación (Bartsch).

THE  
GEORGE  
WASHINGTON  
UNIVERSITY  
BULLETIN

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The Center of Inter-American Studies



WASHINGTON, D. C.

1934



## THE CENTER OF INTER-AMERICAN STUDIES OF THE GEORGE WASHINGTON UNIVERSITY

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University.*

Alva Curtis Wilgus, Ph.D., *Director of the Center.*

### GENERAL STATEMENT

Because of its situation in the heart of the National Capital, The George Washington University is able to offer certain types of academic work and to promote and foster certain studies which profit especially by the resources of the Federal Government, the Library of Congress, the Pan American Union, the various embassies and legations, and other institutions located in Washington. Particularly do these advantages apply to the work concerning the nations of the Americas. It is intended that this Center shall take advantage of these manifold opportunities not only by offering regularly constituted courses and special lectures, but also by encouraging directed research and scholarly publications in the broad field of inter-American problems. The Center further aims to facilitate the interchange of university students and professors and to promote closer cooperation in historical, bibliographical, scientific, philosophical, artistic, and literary matters. In this way it is hoped to bring about closer academic and cultural relationships with students, scholars, and educational institutions in the other Americas and with students of the United States who wish to obtain a broader understanding of, and a keener insight into, the history, thought, and culture of the Americas.

In order the better to accomplish these ends, a Council of specialists living in Washington and its vicinity has been associated with the University Faculty and will from time to time offer lectures in the several fields of interest. This Council will also act as a general advisory body with the duty of formulating the program of action for the Center. Its specific functions are to make recommendations concerning the following matters: courses, projects, lectures, and lecturers; the publication of worthy research results; the exchange of university professors and students; the establishment of fellowships and scholarships; the convocation of scholars, the holding of special conferences, and the arranging and supervising of radio broadcasts; the suggestion of concrete methods for cooperation with existing agencies having objects similar to those of this Center; the taking of any action necessary to encourage and facilitate all forms of beneficial cooperation between scholars in the American states; and the nomination to the proper University authorities of individuals of exceptional merit who should be granted honorary degrees. Besides the members of the Council, scholars in other communities may be asked to serve in an advisory capacity and to assist particularly in directing research in other localities. As requirements arise, further additions to the staff of instruction will be made through Council nominations.



## COUNCIL MEMBERS AND STAFF OF INSTRUCTION

- Heloise Brainerd, A.B., *Chief of Division of Intellectual Cooperation, Pan American Union, Professorial Lecturer.*
- James Christopher Corliss, A.M., *Assistant Professor of Hispanic American Economic Problems.*
- George Howland Cox, A.B., *Professorial Lecturer in Current Hispanic American Affairs.*
- Henry Grattan Doyle, A.M., *Professor of Romance Languages.*
- E. Gil Borges, LL.D., *Assistant Director, Pan American Union, Professorial Lecturer.*
- Cecil Knight Jones, B.Litt., *Professorial Lecturer on Spanish American Literature.*
- Constantine E. McGuire, Ph.D., *Library of Congress, Professorial Lecturer.*
- William Ray Manning, Ph.D., *Department of State, Professorial Lecturer.*
- James A. Robertson, L.H.D., *John B. Stetson University, Professorial Lecturer.*
- Leo S. Rowe, Ph.D., LL.D., *Director General, Pan American Union, Professorial Lecturer.*
- James Brown Scott, LL.D., J.U.D., *Secretary of the Carnegie Endowment for International Peace, Professorial Lecturer.*
- Alva Curtis Wilgus, Ph.D., *Associate Professor of Hispanic American History.*

### VISITING LECTURERS, 1933 AND 1934

- Ricardo J. Alfaro, LL.D., *Minister from Panama.*
- C. L. G. Anderson, M.D., *United States Army, retired.*
- Wilfred Hardy Callcott, Ph.D., *University of South Carolina.*
- Isaac J. Cox, Ph.D., *Northwestern University.*
- W. E. Dunn, Ph.D., *Washington, D. C.*
- Roscoe R. Hill, Ph.D., *Library of Congress.*
- Samuel Guy Inman, LL.D., *Columbia University.*
- Leland H. Jenks, Ph.D., *Wellesley College.*
- Chester Lloyd Jones, Ph.D., *University of Wisconsin.*
- Clarence Fielden Jones, Ph.D., *Clark University.*
- Percy A. Martin, Ph.D., *Stanford University.*
- William W. Pierson, jr., Ph.D., *University of North Carolina.*
- A. Grenfell Price, A.M., *University of Adelaide, Australia.*
- J. Fred Rippy, Ph.D., *Duke University.*
- H. Portell Vilá, LL.D., *University of Havana, Cuba.*
- Gonzalo Zaldumbide, T.M.F., *former Minister from Ecuador.*

## COURSES FOR STUDENTS INTERESTED IN INTER-AMERICAN AFFAIRS

The following departments regularly offer courses dealing with Inter-American affairs:

**BOTANY:** 211-12, *Research in the Flora of Hispanic America* (Griggs).

**ECONOMICS:** 109-10, *Commercial Geography* (Donaldson); 177-78, *Economic Problems of Hispanic America* (Corliss); 181-82, *Economic Relations with Canada* (Donaldson); 191-92, *International Economic Relations* (Donaldson); 251, *Seminar* (Donaldson); 291-92, *Seminar* (Donaldson).

**EDUCATION:** 190, *Comparative Education* (Cooper); 211-12, *Seminar in Educational Origins* (French).

**GEOLOGY:** 217-18, *Research in the Geology of Hispanic America* (Basslet).

**HISTORY:** 105-6, *History of the Foreign Relations of the United States* (Bemis); 141, *History of Modern Colonization* (Ragatz); 155-56, *Rise of Nationalism* (Kayser); 171-72, *Current Hispanic American Affairs* (Cox); 175-76, *Hispanic American History* (Wilgus); 177, *The Great States of Hispanic America* (Wilgus); 178, *The Pan American Movement* (Wilgus); 181-82, *Canadian History* (Churchill); 197, *Seminar-Conference on Hispanic American Affairs* (Wilgus and visiting staff); 209-10, *Proseminar in Hispanic American Revolutionary Period* (Wilgus); 219-20, *Seminar in Hispanic American History* (Wilgus); 221-22, *Seminar in Diplomatic History of the United States* (Bemis).

**HYGIENE AND PREVENTIVE MEDICINE:** 212, *Hygiene* (Spencer); 354, *Preventive Medicine and Public Health* (the staff).

**LAW:** 257-58, *International Law* (Murdock).

**PATHOLOGY:** 320, *Tropical Medicine* (Vedder).

**POLITICAL SCIENCE:** 171, *International Organization* (Johnstone); 172, *International Relations* (Hill); 181-82, *International Law* (Hill); 195-96, *Political Institutions of Hispanic America* (Wilgus); 197, *Seminar-Conference on Hispanic American Affairs* (Wilgus and visiting staff); 281-82, *Seminar in International Law and Relations* (Hill).

**SOCIOLOGY:** 181-82, *Readings in Comparative Sociology* (Willard).

**SPANISH:** 115-16, *Survey of Spanish Literature* (Doyle and Corliss); 121-22, *Spanish Literature in the Golden Age* (Doyle); 125-26, *Modern Spanish Literature* (Doyle); 127-28, *Spanish American Literature* (Jones); 129, *The Literature of Argentina and Uruguay* (Jones); 130, *The Modern Movement in Spanish America* (Jones); 227-28, *Seminar in Spanish American Literature* (Jones).

**ZOOLOGY:** 253-54, *Research in the Fauna of Hispanic America* (Bartsch).

THE  
GEORGE  
WASHINGTON  
UNIVERSITY  
BULLETIN

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Special Conferences and Courses  
in Education

SUMMER SESSIONS 1933



WASHINGTON, D. C.

1933



## THE SUMMER SESSIONS

Because of its situation in the heart of the National Capital, The George Washington University is in a position to organize certain types of academic work which profit especially by the resources of the Departments of the Federal Government and other institutions located in Washington.

The School of Education, located in the natural center of educational research and influence of the Nation, presents in the Summer Sessions of 1933 three distinct conferences or institutes arranged for the purpose of considering special topics and important problems in the field of Education. Distinguished experts from Bureaus of the Federal Government, from national organizations, and from institutions and groups in various States—persons who, through their work and experience, are intimately familiar with the problems to be discussed—will lead the conferences.

The conferences will consist of addresses, discussions, and group meetings. Each conference will be held for one week, with meetings from 2.10 to 4.00 in the afternoon and from 7.10 to 9.00 in the evening, and will be open to a limited number of qualified persons. Students in the Summer Sessions may register for one or more of these conferences and, upon completion of assignments by the director, may receive one semester-hour credit for each conference.

### CONFERENCE ON CURRICULUM

Directors of curriculum from various city and county school systems who have in their districts achieved original and significant results in curriculum construction, have been invited to present and discuss their work and plans. Among these leaders will be the following: Miss Elma A. Neal, First Assistant Superintendent of Public Schools, San Antonio, Texas; Will French, Assistant Superintendent of Schools, Tulsa, Oklahoma; Miss Eleanor M. Johnson, Assistant Superintendent of Schools in Charge of Curriculum Revision, Lakewood, Ohio; Miss Victoria Lyles, Director of Elementary Schools, York, Pennsylvania; Dr. Inga O. Halseth, Director of Laboratory School, College of William and Mary; Dr. Julia L. Hahn, District of Columbia Board of Education; Miss Clara L. Pitts, Director of Curriculum, Alexandria, Virginia; Edwin W. Broom, Superintendent of County Schools, Rockville, Maryland; William H. Brixtow, Deputy Superintendent, Pennsylvania; Mrs. Hazel H. Ott, recently Curriculum Director, State Department of Public Instruction, South Dakota; P. S. Daniel, Superintendent of Schools, Raleigh, North Carolina; Miss Lucy S. Saunders, Director, Elementary Grades, Norfolk.



Virginia, and Miss Eva E. Gerstmyer, Baltimore, Maryland. Miss Mina M. Langvick, Specialist in Curriculum of the United States Office of Education, is cooperating in the organization of this conference.

This conference will meet July 3, 5, 6, 7, and 8.

#### CONFERENCE ON THE NATIONAL SURVEY OF SECONDARY EDUCATION

Members of the staff of the National Survey of Secondary Education will present the following sections of the survey: "The Survey," by William John Cooper, United States Commissioner of Education; "Interpreting the Secondary Schools to the Public," by Belmont Farley; "The Program of Studies," by Edwin S. Lide; "Procedures in Curriculum Making," by Edwin S. Lide; "The Small High School," by Emery N. Ferris and William H. Gaumnitz; "Athletics and Health," by P. Roy Brammell; "Provisions for Individual Differences," by Roy O. Billett; "The Appointment of Teachers," by Walter S. Deffenbaugh; "The Reorganization of Secondary Education," by Francis T. Spaulding; "Other Significant Findings of the Survey," by Carl A. Jessen.

This conference will meet July 17, 18, 19, 20, and 21.

#### CONFERENCE ON EDUCATIONAL RELATIONS TO SOCIO-ECONOMIC PROBLEMS

This conference will be conducted by leaders in our socio-economic order. What are the problems, the issues that confront us today? What are the problems of labor? Of industry? Of public welfare? What can public education do about them? To what extent shall Democracy in America rest her case with public education? Among those participating in the conference will be William John Cooper, United States Commissioner of Education; William Green, President of the American Federation of Labor; John Simpson, President of the Farmers Union; Lewis E. Lawes, Warden of Sing Sing; William Hard, journalist; Henry I. Harri- man, President of the United States Chamber of Commerce; Fred J. Kelley, Chief of the Division of College and Professional Schools, United States Office of Education; George B. Parker, editor-in-chief of Scripps-Howard newspapers; Hornell Hart, Commission on Social Trends; Sidney B. Hall, Superintendent of Public Instruction, Commonwealth of Vir- ginia; Carl H. Milam, American Library Association; Arch T. Allen, State Superintendent of Public Instruction, North Carolina; James N. Rule, Superintendent of Public Instruction, Commonwealth of Penn- sylvania; Harold O. Rugg, Teachers College; Clyde W. Warburton and Hans W. Hochbaum, Department of Agriculture; Fred Hewitt, editor of the *Machinists' Journal*; Edward A. O'Neal, President of the American Farm Bureau Federation.

This conference will meet July 31, August 1, 2, 3, 4, and 5.

## COURSES IN EDUCATION

In addition to the regular courses offered by members of the Faculty of the School of Education, several subjects will be presented by visiting specialists. Dr. James F. Abel, Chief of the Division of Foreign School Systems, United States Office of Education, will lead a group in the study of Foreign School Systems. Dr. Julia L. Hahn, Supervising Principal, District of Columbia Board of Education, will give courses in the Activity Program and the Kindergarten-Primary Problem.

Courses preceded by an asterisk (\*) in the following table are in the six weeks' term, beginning July 3; all others except the three conferences are in the nine weeks' term, beginning June 12. The numerals after the titles of courses designate academic credit in semester-hours. Classes meet daily except Saturday.

No.	Subject	Hour	Instructor
111	History of Education (3).....	7.40 a.m.	Coyner
*118	The Activity Program (2).....	8.40 a.m.	Hahn
*134	Educational Measurement (2).....	8.40 a.m.	Dreese
*142	The Kindergarten-Primary Problem (2).....	9.40 a.m.	Hahn
*147	Psychology of Elementary-School Subjects (2).....	11.40 a.m.	Coyner
*151	The High School (2).....	9.40 a.m.	Powers
*152	The Junior High School (2).....	10.40 a.m.	Powers
*155	Guidance in Secondary Schools (2).....	11.40 a.m.	Dreese
*157	Teaching of History (2).....	8.40 a.m.	Wilgus
*189	Foreign School Systems (2).....	7.40 a.m.	Abel
*201	Seminar: Psychology of Learning (3).....	10.40 a.m.	Dreese
*217	Seminar: Contemporary Movements in Education (3).....	11.40 a.m.	French
*285	Seminar: High-School Administration (3).....	7.40 a.m.	Powers
291-92	Thesis (3-3).....		The Staff
293	Conference on Curriculum (1).....		French and Visiting Staff
295	Conference on the National Survey of Secondary Education (1).....		French and Visiting Staff
296	Conference on Educational Relations to Socio-economic Problems (1).....		French and Visiting Staff

Attention is called also to Psychology 119, Psychological Tests; Psychology 131, Statistics in Psychology; Sociology 111, Educational Sociology; Library Science 135, Children's Literature; and to the courses in History, Sociology, Economics, and Political Science offered in the Summer Sessions by the School of Government.

For further information address Professor William C. French, The School of Education, The George Washington University.

THE  
GEORGE  
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BULLETIN

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CONFERENCE ON HISPANIC AMERICAN AFFAIRS  
AND  
COURSES IN GOVERNMENT

SUMMER SESSIONS 1933



WASHINGTON, D. C.

1933



## THE SUMMER SESSIONS

Because of its situation in the heart of the National Capital, The George Washington University is enabled to organize certain types of academic work which profit especially by the resources of the Federal Government and other institutions located in Washington. Particularly does this benefit apply to the work of the School of Government, which presents in the Summer Sessions of 1933 a wide variety of courses in History, Sociology, Economics, and Political Science.

Repeating the special work offered last summer, Dr. Frank M. Surface, Assistant Director of the United States Bureau of Foreign and Domestic Commerce, will once more offer a course in the Principles of Merchandising.

The special attention which has been given to the important field of Hispanic American affairs will be continued in another seminar-conference to be held this summer. The emphasis this year is centralized on the Caribbean area, with particular attention paid to American diplomacy and to the history of Mexico, Central America, the West Indies, and northern South America. This seminar-conference offers to its members an exceptional opportunity to come into intimate contact with leading authorities in the field, and the course has been so arranged that mutual views and opinions can be exchanged with maximum facility and answers to perplexing questions can be found.

The conference will meet two hours daily (from 9.40 to 11.30 a.m.) five times a week, for six weeks. The first portion of each period will be devoted to lectures and the last portion to informal discussions and, in some instances, to brief talks by guest speakers. Each student will be provided with reading references in the nature of detailed bibliographies covering the subject of each lecture. At the conclusion of the conference a comprehensive examination will be held, and each student satisfactorily passing the course will be given four academic credits in either History, Political Science, or Economics.

The course is in charge of Dr. A. Curtis Wilgus, Associate Professor of Hispanic American History in The George Washington University. All students desiring to join the seminar-conference should communicate with Professor Wilgus in advance of registration.

### THE SUMMER TERMS

The Summer Sessions of the School of Government will be held as follows: nine weeks' term, June 12 to August 11; six weeks' term, July 1 to August 11. Registration day for the nine weeks' term is Saturday, June 10, and for the six weeks' term, Monday, July 3.



# SCHEDULE OF LECTURES FOR THE SECOND SEMINAR-CONFERENCE ON HISPANIC AMERICAN AFFAIRS

Lec- ture	Date (July-Aug.)	Subject	Lecturer
1	Mon. 3	Introduction	A. C. Wilgus, <i>The George Washington University</i>
2	Wed. 5	The significance of the Caribbean..	To be announced
3	Thurs. 6	Political life in the Caribbean	S. G. Inman, <i>Columbia University</i>
4	Fri. 7	Society in the Caribbean	
5	Sat. 8		
6	Mon. 10	Economic conditions in the Caribbean	C. F. Jones, <i>Clark University</i>
7	Tues. 11		
8	Wed. 12	The modern West Indies..	L. H. Jenks, <i>Wellesley College</i>
9	Thurs. 13		
10	Fri. 14	The modern West Indies..	H. Portel Vilá, <i>University of Havana</i>
		Present-day Cuba.	
11	Mon. 17		
12	Tues. 18		
13	Wed. 19	Modern Central America...	R. R. Hill, <i>Nicaraguan Claims Commission</i>
14	Thurs. 20		
15	Fri. 21		
16	Mon. 24		
17	Tues. 25		
18	Wed. 26	Modern Mexico. ....	W. H. Callcott, <i>University of South Carolina</i>
19	Thurs. 27		
20	Fri. 28		
21	Mon. 31		
22	Tues. 1	Modern Colombia.	J. F. Rippey, <i>Duke University</i>
23	Wed. 2	Modern Venezuela	W. W. Pierson, <i>University of North Carolina</i>
24	Thurs. 3	Modern Venezuela	E. Gil Borges, <i>Assistant Director, Pan American Union</i>
		Present-day Venezuela.	
25	Fri. 4		
26	Mon. 7		
27	Tues. 8		
28	Wed. 9	The United States and the Caribbean	C. L. Jones, <i>University of Wisconsin</i>
29	Thurs. 10		
..	Fri. 11	Final examination..	

## COURSES UNDER THE AUSPICES OF THE SCHOOL OF GOVERNMENT

In the courses listed below, those titles preceded by an asterisk (\*) are in the six weeks' term, beginning July 3, and all others are in the nine weeks' term, beginning June 12. The numerals after the titles designate the amount of academic credit in semester-hours that each course carries.

Many courses offered by other departments in the Summer Sessions will be accepted for credit by the School of Government. A complete bulletin of information regarding the Summer Sessions will be sent upon request. For all information concerning work in the School of Government, address Professor Warren Reed West, Ph.D., Executive Chairman.

### POLITICAL SCIENCE

*Government of the United States* (3), Hill; *State Government* (3), West; \**Comparative European Governments* (2), Tillema; *Commercial and Maritime Law* (3), Tillema; \**International Organization* (2), Johnstone; *International Law* (3), Hill; *Politics and Governments in the Far East* (3), Johnstone; \**Seminar-Conference: Hispanic American Affairs* (2-2), Wilgus and Visiting Staff; \**Seminar* (2), West.

### ECONOMICS

*Principles of Economics* (3-3), Buchanan; *Principles of Accounting* (3-3), Owens; *History of Commerce* (3), Kennedy; \**Economic History of the United States* (2), Kennedy; *Commercial Geography* (3), Donaldson; *Money and Banking* (3), Sutton; \**Investments* (2), Sutton; \**Principles of Merchandising* (2), Surface; *Seminar* (3), Donaldson.

### HISTORY

*American History* (3), Wilgus; *Civilization of the Ancient World* (3), Kayser; *Modern European History* (3), Ragatz; \**Intellectual Aspects of the Renaissance* (2), Kayser; \**The Rise of Nationalism* (2), Kayser; \**Teaching of History* (2), Wilgus; *Pro-seminar in Modern European History* (3), Ragatz.

### SOCIOLOGY

*Social Organization* (3), Willard; *Survey of Social Problems* (3), Willard.

### PUBLIC SPEAKING

*Principles of Effective Speaking* (3), Yeager; *Business and Professional Speaking* (3), Yeager; \**American Orators* (2), Yeager.

THE  
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THE LAW SCHOOL SUMMER SESSION  
1933



WASHINGTON, D. C.

1933

## THE LAW SCHOOL SUMMER SESSION

### THE FACULTY

William Cabell Van Vleck, A.B., LL.B., S.J.D., *Dean of the Law School*  
*Professor of Law, Executive Officer.*

Charles Sager Collier, A.B., LL.B., S.J.D., *Professor of Law.*

William Armstrong Hunter, A.B., LL.M., *Associate Professor of Law.*

William Thomas Fryer, A.B., LL.B., J.D., *Associate Professor of Law.*

Saul Chesterfield Oppenheim, A.M., J.D., S.J.D., *Associate Professor of Law.*

Carville Dickinson Benson, jr., A.B., LL.B., S.J.D., *Assistant Professor of Law.*

James Forrester Davison, A.B., LL.M., S.J.D., *Assistant Professor of Law.*

### THE LAW SCHOOL

The Summer Session will cover a period of thirteen weeks, divided into two terms of six and one-half weeks each. Classes in the first term will begin Monday, June 12, and end Saturday, July 22. Examinations will be held July 24, 25, and 26. Classes in the second term will begin Thursday, July 27, and end Wednesday, September 6. Examinations will be held September 8. Tuesday, July 4, and Monday, September 4, will be holidays; classes scheduled for those days will meet instead on Saturday, July 8, and Saturday, September 2.

### RESIDENCE AND ATTENDANCE

The Summer Session is a regular part of the work of the School. The character of the instruction, the amount and grade of work required, and the rules and regulations as to residence, attendance upon classes, and grades, are the same as in the regular session of the academic year. Credit is given for subjects completed by regularly qualified students. Residence credit is given for one fifth of a part-time year for attendance in one term of the Summer Session. A part-time year is three fourths of a full-time year and one fourth of the residence requirement for the degree of Bachelor of Laws. In no case will residence credit amounting to more than this be allowed for attendance during the Summer Session. No student will be recommended for the degree for which he is a candidate unless he has fully completed the requirements for residence as well as those for semester-hours in subjects. A student who at the end of the Summer Session has completed subjects which equal in semester-hours the total number of semester-hours required for the degree for which he is a candidate, but has failed to complete the full residence requirements



for that degree, must be in residence during the first semester of the next academic year and pass the examination in at least one subject.

#### ADMISSION

The requirements for admission are the same as those for the regular session, as stated in the Law School announcement in the general catalogue. For candidates for the degree of Bachelor of Laws the requirement is the completion before admission of two years (sixty semester-hours) of college work. Students from other law schools may be admitted for the Summer Session only as regular or as unclassified students. Unclassified students must comply with the same entrance requirements as candidates for the degree of Bachelor of Laws.

Qualified students are permitted to begin the study of Law in the first term of the Summer Session, but not in the second term.

Beginning students who complete successfully the work of both terms of the Summer Session may register for a full program of late-afternoon work during the next regular academic year. Those who fail to complete successfully the work of both terms may be required to take during the next academic year less than a full program of work if the schedule of classes makes this necessary or the grade of their work during the Summer Session makes it desirable.

#### REGISTRATION

No student will be registered until proper credentials have been filed and approved. The registration periods will be, for the first term, Saturday, June 10, and Monday, June 12; and for the second term, Tuesday and Wednesday, July 25 and 26. Students who fail to complete their registration during the regular registration periods will be charged a late-registration fee of \$5.00. No student will be permitted to register after the first week of a term.

#### FEES

Fees are as follows: University fee, \$4.00; tuition fee, for each semester-hour of credit, \$8.00; late-registration fee, \$5.00; change fee, for each change in program after registration, \$2.00; reinstatement fee, \$5.00.

Fees for each term are payable in advance at the beginning of the term.

A student who is compelled to withdraw before the end of a term should apply to the Dean of the Law School at once for permission to withdraw. Until this application for withdrawal has been made and approved, the student is treated as still in registration. In case of a withdrawal during a term no refund of fees will be granted.

#### COURSES OF INSTRUCTION AND CREDITS

The schedule is so arranged that work may be taken in the morning or in the late afternoon, or part in the morning and part in the late afternoon.

Classes in morning subjects are held from Tuesday to Saturday, inclusive; classes in afternoon subjects, from Monday to Friday, inclusive.

Students may obtain a maximum of four semester-hours of credit each term by attendance in two subjects aggregating ten periods a week, or by attendance in one subject ten periods a week.

Regarding requirements for the degrees, see the Law School announcement in the general catalogue.

### COURSES OF INSTRUCTION IN LAW

- 133-34 *Personal Property* (4) Benson  
Larrimore's Cases on Personal Property. Daily except Saturday, 5.10 to 7.00 p.m., first term.
- 141-42 *Torts* (4) Collier  
Daily  
Beale's Edition of Ames and Smith's Cases on Torts. Daily except Saturday, 5.10 to 7.00 p.m., second term.
- 151-52 *Agency* (4) Fryer  
Mechem's Cases on Agency (2d ed. by Seavey). Daily except Saturday, 5.10 to 7.00 p.m., second term.
- 163-64 *Bills and Notes* (4) Oppenheim  
Britton's Cases on Bills and Notes (2d ed.). Daily except Saturday, 5.10 to 7.00 p.m., first term.
- 170 *Domestic Relations* (2) Hunter  
Madden's Cases on Domestic Relations. Monday and Thursday, 5.10 to 7.00 p.m., and Wednesday, 6.10 p.m., first term.
- 185 *Quasi-contracts* (2) Van Vleck  
Thurston's Cases on Quasi-contracts. Tuesday and Friday, 5.10 to 7.00 p.m., and Wednesday, 5.10 p.m., first term.
- 213-14 *Corporations* (4) Davisson  
Warren's Cases on Corporations and Dodd's Supplement to Warren's Cases. Daily except Saturday, 5.10 to 7.00 p.m., second term.
- 215 *Equity III* (2) Hunter  
Case book to be announced. Daily except Monday, 7.40 a.m., first term.

THE SUMMER SESSIONS  
1933





THE  
GEORGE  
WASHINGTON  
UNIVERSITY  
BULLETIN

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VOL. XXXI

No. 5

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THE SUMMER SESSIONS

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WASHINGTON, D. C.

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BY THE UNIVERSITY



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# CALENDAR OF THE SUMMER SESSIONS

## 1933

Date	Days	Occasion
May 22-31	Monday to Wednesday, both dates inclusive	Pre-registration period for all courses in the Summer Sessions
June 10	Saturday	Registration day for all courses in the Summer Sessions, 10.00 a.m. to 8.00 p.m.
June 12	Monday	Instruction begins in the nine weeks' term and in the first term of the Law School
June 13	Tuesday	Late-registration fee (\$5.00) is charged for all registrations in the nine weeks' term and in the first term of the Law School
June 19	Monday	Last day on which late registration is permitted for the nine weeks' term and for the first term of the Law School
July 3	Monday	Registration day for the six weeks' term in all Schools and Divisions except the Law School, 9.00 a.m. to 6.00 p.m. Instruction begins in the six weeks' term
July 4	Tuesday	Holiday
July 5	Wednesday	Late-registration fee (\$5.00) is charged for all registrations in the six weeks' term
July 8	Saturday	All classes scheduled for July 4 meet at regular hours
July 10	Monday	Last day on which late registration is permitted for the six weeks' term
July 25-26	Tuesday and Wednesday	Registration period for the second term of the Law School
July 26	Wednesday	First term of the Law School ends
July 27	Thursday	Second term of the Law School begins
July 28	Friday	Late-registration fee (\$5.00) is charged for all registrations in the second term of the Law School
August 3	Thursday	Last day on which late registration is permitted for the second term of the Law School
August 11	Friday	Six weeks' term and nine weeks' term end in all Schools and Divisions except the Law School
September 2	Saturday	Law classes scheduled for September 4 meet at regular hours
September 4	Monday	Holiday
September 8	Friday	Second term of the Law School ends



SUMMER STUDY IN WASHINGTON



## SUMMER STUDY IN WASHINGTON

The Summer Sessions offer an opportunity to continue University work during the summer period. The educational value of a term of study in the Capital of the Nation is of great importance. It forms a background for both intelligent and appreciative citizenship. History, political science, economics, literature, and current events are all vivified by a first-hand knowledge of our national institutions and traditions. The schedule of classes will give the student ample time to visit the great libraries and laboratories of the Capital, and to observe the Departments and Bureaus of the Government in operation. The many educational and scientific organizations with central offices and exhibits situated in Washington are accessible to students whose special interests draw on such resources. Excursions will be arranged to the many places of beauty and historic association in near-by Virginia and Maryland.

The National Capital stands in a region distinguished by the personal activities of George Washington, and in this area our national traditions were first expressed. A short distance down the Potomac River is Mount Vernon, the home of Washington and the place most intimately associated with his career. The nearest town, Alexandria, is extremely rich in its associations with the First President and with early American history. Directly across the Potomac from Washington are the hills of Arlington, the home of Martha Washington. The present Arlington mansion, built by Washington's adopted son, was the residence of General Robert E. Lee when he resigned from the army to assume charge of the Confederate forces at Richmond. Old historic Georgetown, now a part of the District of Columbia, has many memories of General Washington. It was in this village that he met local land-owners and arranged for the purchase of land for the District of Columbia. Georgetown was the headquarters of Washington and Major L'Enfant when they supervised the work of the surveyors laying out the Capital of the Nation.

The city of Washington, situated on the east bank of the Potomac, with its many parks and shaded boulevards, has the reputation of being the most beautiful city in America. The monumental classic buildings which house the Departments of the Government, the elegant dignity of the White House, and the grandeur of the Capital dominate a city of handsome residences and wide avenues. The notable monuments, the parks and wooded drives contribute to an atmosphere of distinction expressive of the best spirit of our national life.

The Government has been likened to a great university offering special opportunity in the study of governmental administration, diplomacy, the practical application of our constitutional principles, the administration of law, and of political affairs generally. Bureaus, experimental

stations, laboratories, museums, and observatories involve every science, and thousands of eminent specialists give to the Nation the results of study and research in a multitude of reports. Realizing the unique educational value of such activities, the Congress resolved "that the facilities for research and illustration in any governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible . . . to the scientific investigators and to students of any institution of higher education now incorporated . . . under the laws of Congress."

The Library of Congress is the greatest of our national institutions in its relation to research and learning. Its large collections include the rarest historical documents and publications; its unique manuscripts and records make up the richest body of source material bearing on the history of our Nation. It contains practically every book printed in America, as well as the most prized of foreign publications. The new Folger Shakespeare Library and special collections in other museums and institutions supplement the Library of Congress in placing Washington foremost as a center of research. The Government's broad educational program centers in the Office of Education, which advises with State, county, and urban school officers as to the administration and improvement of schools, and brings to teachers the results of national experiment and experience. The Bureau of Standards, a unique scientific laboratory, with its large staff of experts, conducts special investigations in the interests of science and technical subjects. The Smithsonian Institution, with its International Exchange Service, distributes a vast accumulation of scientific data and information. The National Museum, with many millions of specimens, is a vast organized collection of the ideas and works of man, illustrating how his simple arts and early beliefs developed into our modern complex culture.

In addition to these Federal institutions which contribute so largely to Washington as a center of learning, there are many other converging forces to make it the focus of educational, intellectual, and cultural achievement. Scientific and educational groups such as the Carnegie Institution of Washington, the American Council on Education, the National Academy of Sciences, the National Research Council, the National Education Association, and the National Geographic Society, with many others, are situated here. Many art galleries, such as the National, the Corcoran, and the Freer, with their priceless collections, are accessible to the student of Fine Arts. And with the increasing importance of the United States in world affairs, Washington also has become the crossroads of international life, in contact with old-world cultures and an internationally recognized center of influence. International groups, such as the Pan American Union and the Carnegie Institution for the Advancement of Peace, have made Washington their headquarters. The embassies



and legations of foreign countries, with their staffs of diplomatic experts and assistants, also contribute largely to the international aspect of life in the Capital of the Nation.

Washington has become an ideal university city. In such an atmosphere it is not strange that many institutions of higher learning have developed. As early as 1791 Georgetown University opened its doors to students, and in its long history under the jurisdiction of the Jesuit Order it has grown into an institution of importance. Under the patronage of the Methodist Episcopal Church is American University, with its newly developed campus on the outskirts of the city. In Washington is situated The Catholic University of America, authorized by Pope Leo XIII in 1889 and supported by the Roman Catholic Church. Here also is The George Washington University, a non-sectarian university, which was founded in 1821.

Not only have these institutions derived stimulation from the presence of the other cultural influences in the Capital, but, reciprocally, the scholars of their faculties and the body of students in all branches of university work are contributing no small amount of influence to Washington as a seat of learning.

## THE SUMMER SESSIONS

The Summer Sessions of 1933 of The George Washington University will present a full program of academic and professional courses. In addition, special curricula have been prepared in the School of Education and the School of Government. A large number of the regular members of the University Faculty will teach during the summer, and distinguished specialists from the Departments of the United States Government and from national economic and educational organizations have been added to the staff.

The Summer Sessions will be held as follows: nine weeks' term, June 12 to August 11; six weeks' term, July 3 to August 11. In the Law School the first term will be from June 12 to July 26, and the second term from July 27 to September 8.

Courses will be offered in the Junior College, Columbian College (the Senior College), the Graduate Council, the Law School, the School of Education, the School of Government, the Division of Library Science, the Division of Fine Arts, and the Division of University and Extension Students. Students in the School of Engineering will have the opportunity to take many of their elective and required courses in the Junior College and Columbian College curricula.

### ACADEMIC CREDIT

The Summer Sessions are an integral part of the University. Since the courses offered are the equivalent of the corresponding courses offered in the regular terms, academic credit for the completed work will be given toward the appropriate degrees in the various Schools and Divisions of the University.

The general catalogue should be consulted for information concerning regulations and requirements which apply to the various Colleges, Schools, and Divisions of the University.

### STUDENT LIFE

Provision is made for the social and recreational side of student life during the Summer Sessions. The University receptions and dances are annual events, and special summer editions of the student newspaper are issued. The University's athletic facilities and equipment are available to summer students. Tours and excursions to places of interest, under the direction of competent guides, will be organized for out-of-town students. The numerous parks and golf courses of Washington, the riding trails, water sports on the Potomac and at near-by beaches, all offer a wide choice of outdoor recreation.

The University fee entitles all students in attendance to medical advice and treatment from the office of the University Physician.

A series of University lectures upon themes of contemporary interest by men distinguished in various phases of our modern life will be given during the Sessions.

#### CLUB PRIVILEGES

For the benefit of out-of-town students, summer privileges (subject to certain limitations) have been granted by the Washington Branch of the American Association of University Women and by the University Club of Washington. Under this arrangement many students may enjoy the use of these club houses and contact with the membership by applying to the Dean of the Summer Sessions.

#### LIVING QUARTERS AND COSTS

The University has no dormitories. For the benefit of out-of-town students the Residence Bureau maintains a list of rooms and apartments near the University. Single rooms usually cost from fifteen to twenty-five dollars a month, and double rooms, from ten to twenty dollars a month a person. Rooms with board, including breakfast and dinner, cost from thirty-five to forty dollars a month a person.

#### UNIVERSITY REGULATIONS

The right is reserved to drop any student whenever, in the interest of the student or the University, the Faculty deems it advisable to do so.

The University is not responsible for the loss of personal property belonging to students in any University building.

The University and its various Colleges, Schools, and Divisions reserve the right to modify or change the requirements, rules, and fees of the University. Such regulations shall go into force whenever the proper authorities may determine and shall apply to all students of the University.



## SPECIAL CURRICULA FOR 1933

Because of its situation, The George Washington University is in a position to organize certain types of academic work which profit especially by the resources of the Departments of the Federal Government and other institutions in the National Capital. In addition to a full program of regular courses in academic and professional divisions of the University, two special curricula are offered by the School of Government and the School of Education.

### THE SCHOOL OF GOVERNMENT

The School of Government presents a wide variety of courses in History, Sociology, Economics, and Political Science. Repeating the special work offered last summer, Dr. Frank M. Surface, Assistant Director of the United States Bureau of Foreign and Domestic Commerce, will again offer a course in the Principles of Merchandising.

The special attention which has been given to the important field of Hispanic American relations will be continued in another seminar-conference to be held this summer. The emphasis this year, however, is centralized on the Caribbean area, and the work is so arranged that students whose interests lie in the field of American diplomacy and particularly in the history of Mexico, Central America, the West Indies, and northern South America will receive greater benefit. The seminar-conference offers to its members an exceptional opportunity to come into intimate contact with leading authorities in the field, and the course has been so arranged that mutual views and opinions can be exchanged with maximum facility and answers to perplexing questions can be found.

The lectures in the seminar-conference will be given by a group of specialists coming from various parts of the United States. The lecturers include Professor Chester Lloyd Jones, of the University of Wisconsin; Professor Samuel Guy Inman, of Columbia University; Professor J. Fred Rippey, of Duke University; Professor Clarence F. Jones, of Clark University; Dr. Leland Hamilton Jenks, of Wellesley College; Professor Roscoe R. Hill, formerly a member of the Nicaraguan War Claims Commission; Professor W. H. Callcott, of the University of South Carolina; Dr. Herminio Portel Vilá, of the University of Havana; Professor William W. Pearson, jr., of the University of North Carolina; Dr. Esteban Gil Borges, Assistant Director of the Pan American Union; and others.

The conference will meet two hours daily, five times a week, for six weeks. The first portion of each period will be devoted to lectures and the last portion to informal discussions. Each student will be provided with reading references in the nature of detailed bibliographies covering



the subject of each lecture. At the conclusion of the conference a comprehensive examination will be held, and each student satisfactorily passing the course will be given academic credit in either History, Political Science, or Economics.

The course is in charge of Dr. A. Curtis Wilgus, Associate Professor of Hispanic American History in The George Washington University. All students desiring to join the seminar-conference should communicate with Professor Wilgus in advance of registration.

### THE SCHOOL OF EDUCATION

In addition to many regular courses offered by members of the Faculty of the School of Education, several subjects will be presented by visiting specialists. Dr. James F. Abel, Chief of the Division of Foreign School Systems, United States Office of Education, will lead a group in the study of Foreign School Systems. Dr. Julia L. Hahn, Supervising Principal, District of Columbia Board of Education, will give courses in the Activity Program and the Kindergarten-Primary Problem.

Four distinct conferences or institutes have been arranged for the consideration of special educational topics. These conferences, under the direction of Professor William C. French, of the School of Education, will be led by some of the most distinguished experts in their special fields in the Departments of the United States Government and other institutions whose activities are most closely related to the problems to be discussed. Each conference will be held for one week, with meetings in the afternoon and evening, and will be open to qualified persons. Students in the Summer Sessions may register for one or more of these conferences and upon completion of reading and investigation assigned by the director, may receive one semester-hour credit for each conference.

*Conference on Curriculum.* This conference will meet July 3, 5, 6, 7, and 8.

Directors of curriculum from various city and county school systems who have in their districts achieved original and significant results in curriculum construction, have been invited to present and discuss their work and plans. Among these leaders will be the following: Miss Elma A. Neal, First Assistant Superintendent of Public Schools, San Antonio, Texas; Will French, Assistant Superintendent of Schools, Tulsa, Oklahoma; Miss Eleanor M. Johnson, Assistant Superintendent of Schools in Charge of Curriculum Revision, Lakewood, Ohio; Miss Victoria Lyles, Director of Elementary Schools, York, Pennsylvania; Dr. Inga O. Halseth, Director of Laboratory School, College of William and Mary; Dr. Julia L. Hahn, District of Columbia Board of Education; Miss Clara L. Pitts, Director of Curriculum, Alexandria, Virginia; and Edwin W. Broom, Superintendent of County Schools, Rockville, Maryland. Miss

Mina M. Langvick, Specialist in Curriculum of the United States Office of Education, is cooperating in the organization of this conference.

*Conference on Indian Life and Education.* This conference will meet July 10, 11, 12, 13, and 14.

Under the guidance of specialists in Indian life and Indian education from the United States Office of Indian Affairs and the United States Office of Education, special problems of religious and social workers, institutional agencies, teachers in the Indian Service, and teachers in elementary schools who use the Indian unit, will be presented. Among those who will lead the discussions are: Dr. W. Carson Ryan, jr., Director of Education, United States Office of Indian Affairs; Miss Rose K. Brandt, Supervisor of Elementary Education, United States Office of Indian Affairs; Dr. Lewis Merriam, Brookings Institution; Dr. John R. Swanson and Dr. Frank Roberts, of the United States Bureau of Ethnology; and Miss Emily C. Davis, Science Service.

*Conference on the National Survey of Secondary Education.* This conference will meet July 17, 18, 19, 20, and 21.

Members of the staff of the National Survey of Secondary Education, led by United States Commissioner of Education John W. Cooper, will present important phases of the work of the Survey, and several additional specialists will be invited to discuss related problems.

*Conference on Educational Relations to Socio-economic Problems* This conference will meet July 31, August 1, 2, 3, 4, and 5.

The conference will be conducted by leaders of organizations which represent some of the most important social and economic phases of our national life. The basic problem will be: How can Education, in its widest aspects, relate itself constructively to current issues and problems? Among the topics to be presented will be: "organized labor," by William Green, President of the American Federation of Labor; "agriculture," by John Simpson, President of the Farmers Union; "crime," by Lewis E. Lawes, Superintendent of Sing-Sing prison; and "phases of social planning," by William Hard, journalist, Henry I. Harriman, President of the United States Chamber of Commerce, Fred J. Kelley, Chief of the Division of College and Professional Schools, United States Office of Education, and others to be announced.

A special leaflet giving more detailed information concerning these conferences is being prepared and will be available to all applicants. A description of these conferences and their places on the schedule will be found on pages 56-57. Requests for further information concerning them should be addressed to Professor William C. French, School of Education.

THE UNIVERSITY





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- Audley Lawrence Smith, A.M., *Assistant Professor of English.*
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- Edgar William Woolard, Ph.D., *Assistant Professor of Mathematics.*
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James Fred Rippy, Ph.D., *Duke University.*

Herminio Portel Vilá, LL.D., *University of Havana, Cuba.*

## THE UNIVERSITY

The idea of a university located in the Capital of the Nation was sponsored by George Washington, who during his public life urged the establishment of such an institution and in his will left fifty shares of stock in the Potomac (Canal) Company for the endowment of a university to be established in the District of Columbia "to which the youth of fortune and talents from all parts thereof might be sent for the completion of their Education in all the branches of polite literature;—in arts and Sciences,—in acquiring knowledge in the principles of Politics & Good Government."

The George Washington University is the successor of Columbian College in the District of Columbia, which was chartered by an act of Congress of February 9, 1821. In 1873 the name was changed to "Columbian University" and in 1904 to "The George Washington University."

In 1930 a new plan of academic organization was effected, resembling in principle the master-apprentice relation of the old guild system. The University as it is now organized consists of the Junior College, comprising the work of the freshman and sophomore years; a senior college, known as Columbian College, which awards the Bachelor's and Master's degrees; a council for graduate study; the professional Schools and Divisions, which include Medicine, Law, Engineering, Pharmacy, Education, Government, Library Science, and Fine Arts; the Division of University and Extension Students; and the Summer Sessions.

The George Washington University is located in the heart of the city of Washington, a short distance from the Potomac River and the Mall. Within a few blocks are the White House and the offices of many of the Departments of the Government, including the Department of State, the Treasury Department, the War Department, the Navy Department, the Department of Justice, the Department of the Interior, and the Department of Labor. The Corcoran Gallery of Art, the Pan American Union Building, and the National Academy of Sciences are also near by; and the Capitol and the Library of Congress can be reached by street car in twenty minutes from any of the University buildings.



## EDUCATIONAL FACILITIES

Buildings, grounds, and equipment of the University are valued at \$3,500,000. The buildings of the Colleges, Schools, and Divisions offering Summer Sessions work are located in the vicinity of Twenty-first and G Streets NW.

### THE UNIVERSITY LIBRARY

The University Library, which comprises the General Library, the various departmental and seminar libraries, the Medical Library, and the Law Library, contains more than 100,000 volumes.

The General Library includes, in addition to the general collection, the library of the late Professor Richard Heinzel, of the University of Vienna, which contains 7,200 books and pamphlets in Germanic philology and literature and cognate branches; the library of the late Professor Curt Wachsmuth, of the University of Leipzig, which contains 7,900 books and pamphlets in Greek and Roman literature, archeology, and history; the Mount Vernon Alcove, which contains 4,000 volumes in political history, international law, and the social sciences; a representative collection of Spanish-American books, the gift of the Governments of Hispanic America; the Chauncey Mitchell Depew Public Speaking Library of approximately 500 volumes, the gift of Mrs. Chauncey M. Depew; and the library of the Division of Fine Arts, which contains over 2,000 volumes, mainly on architecture, and the Russell Sturgis collection of 7,500 mounted photographs. About 1,000 of these latter volumes constitute a collection made available by the American Institute of Architects, to whom the library is always accessible.

The departmental and seminar libraries are as follows:

Botany—building H, 2027 G Street  
Chemistry—Corcoran Hall, fourth floor  
Engineering—building V, 2024 H Street  
Fine Arts—building E, 2101 G Street  
Library Science—Lisner Hall, room 29  
Mathematics—building V, 2026 H Street  
Pharmacy—building U, 2020 H Street  
Physics—Lisner Hall, room 22  
Public Speaking—building Q, 712 Twentieth Street  
Zoology—building I, 2025 G Street

### LIBRARY HOURS

The *General Library* (building J, 2023 G Street NW.), 8.30 a.m. to 9.30 p.m. Monday to Friday; 10.00 a.m. to 2.00 p.m. on Saturday.

The *Law Library* (building S, 720 Twentieth Street NW.), 9.00 a.m. to 10.00 p.m. Monday to Friday; 9.00 a.m. to 1.00 p.m. on Saturday.



OTHER LIBRARY FACILITIES

Students have access also to the Library of Congress; the Public Library of the District of Columbia and its branches; the Library of the Carnegie Endowment for International Peace; the Library of the Pan American Union; the Library of the Bureau of Railway Economics; the Library of the United States Department of Agriculture, with its scientific departmental collections; the Library of the United States Office of Education; the Army Medical Library; the Library of the Smithsonian Institution; and many of the other great special collections of the Government Departments.

GOVERNMENTAL INSTITUTIONS ACCESSIBLE TO STUDENTS

In order to promote research and the diffusion of knowledge, the Congress of the United States has made the scientific resources of the Government accessible to students under the terms of the following joint resolution, approved April 12, 1892:

*Resolved by the Senate and House of Representatives of the United States of America, in Congress assembled,* That the facilities for research and illustration in the following and any other Governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia, to wit:

- One. Of the Library of Congress.
- Two. Of the National Museum.
- Three. Of the Patent Office.
- Four. Of the Bureau of Education.
- Five. Of the Bureau of Ethnology.
- Six. Of the Army Medical Museum.
- Seven. Of the Department of Agriculture.
- Eight. Of the Fish Commission.
- Nine. Of the Botanic Gardens.
- Ten. Of the Coast and Geodetic Survey.
- Eleven. Of the Geological Survey.
- Twelve. Of the Naval Observatory.

## ADMISSION

All departments of the University are open to men and women.

The Summer Sessions offer opportunities to qualified students to commence or continue work toward appropriate degrees in the Junior College, Columbian College (the Senior College), the Graduate Council, the Law School, the School of Education, the School of Engineering, the School of Government, the Division of Library Science, the Division of Fine Arts, and the Division of University and Extension Students.

Students registered for a degree in another college or university may, with the approval of that institution, complete courses which will be credited toward such a degree.

### ENTRANCE REQUIREMENTS

The requirement for admission to the freshman class of the Junior College (which prepares for the professional Schools) and of the School of Engineering is a certificate of graduation from an accredited four-year high-school course, or its equivalent, amounting to at least fifteen "units," distributed according to the admission requirements listed under each of the respective Schools in the general catalogue.

The quality of work done must be satisfactory. A graduate of a school regionally accredited must rank in the upper four fifths of his class; a graduate of a school State accredited only, must rank in the highest fifth of his class. Transfer students, in order to be admitted, must likewise rank well in the accredited institution previously attended.

Further information regarding requirements for admission, and regarding entrance examinations, may be found in the general catalogue of the University.

### SPECIAL INSTRUCTIONS TO PROSPECTIVE STUDENTS

1. Prospective students should write to the Director of Admissions, The George Washington University, for an application blank, which should be filled out carefully and *returned at once*. All questions must be answered, and the Division to which admission is desired should be checked. Although this application does not bind the individual to attend the University, it gives important information and saves time during the student's registration procedure.

2. A student entering The George Washington University for the first time, and expecting to become a candidate for a degree here, should see that a transcript of his record from each institution of higher learning previously attended, is forwarded direct to this University.

Students who have done college, normal-school, or university work should ask the registrar of each such institution attended to send a com-

plete transcript to the Director of Admissions. Applicants for the pre-medical curriculum must have their high-school records sent in upon the University form, in addition to any other transcripts.

Students who have graduated from high school only should ask the Director of Admissions to mail them a special high-school-record form, which the student will then forward to his principal.

3. A student entering for the first time, who is in good standing at an institution of higher learning and who expects to have his Summer Sessions credits as earned in The George Washington University transferred later to another institution, should request the registrar of the last institution attended to forward a statement of scholarship and disciplinary standing, rather than a complete transcript. Such a student should apply for admission to the Division of University and Extension Students.

A student who has never attended an institution of higher learning must establish his eligibility for admission to the Summer Sessions by filing his high-school credentials on a form which will be sent upon request.

4. In order that credentials may be considered and the decision reported without delay, students are urged to file both application and record or records immediately upon deciding to apply for admission.



## REGISTRATION

Before a student may be admitted to registration he must have satisfied the Admissions Office that he is qualified for entrance to the University (see "Admission," pages 22-23).

### TIME AND PLACE OF REGISTRATION

Registration for the nine weeks' term in the Junior College, Columbian College, the Graduate Council, the School of Education, the School of Government, the Division of Library Science, the Division of Fine Arts, and the Division of University and Extension Students will be held on Saturday, June 10. Registration will be conducted in Corcoran Hall, 725 Twenty-first Street NW., from 10.00 a.m. to 8.00 p.m. Registration for the six weeks' term in these Schools and Divisions will be held on Monday, July 3. Registration for the first term in the Law School will be conducted in Stockton Hall on Saturday, June 10. Registration for the second term in the Law School will be held on Tuesday and Wednesday, July 25 and 26.

### REGISTRATION PROCEDURE

Instructions for registration will be issued to each student at the time of registration. A student who has previously matriculated in the University but who has not been in attendance during the semester prior to registration, should file an application blank in advance of registration.

### LATE REGISTRATION

For registration after June 12 in the nine weeks' term, and after July 3 in the six weeks' term, a late-registration fee of \$5.00 will be charged. Registration in all courses for credit closes on June 19 for the nine weeks' term and on July 10 for the six weeks' term.

### CHANGE IN REGISTRATION

Application for a change in registration should be filed in the office of the Dean or Director of the School or Division. Change may be made only with the permission of the adviser or major professor and the Dean of the School or Director of the Division concerned. A fee of \$2.00 is charged for each change in program after the last day of regular registration (see "Time and Place of Registration," above).



## FEES AND FINANCIAL REGULATIONS

**UNIVERSITY FEE**  
For the Summer Sessions..... \$4.00

**TUITION FEES**  
*The Junior College, Columbian College, the Law School, the School of Engineering, the School of Education, the School of Government, the Division of Library Science, the Division of Fine Arts, and the Division of University and Extension Students:*  
For each semester-hour credit of courses taken..... 8.00

*The Graduate Council:*  
For regular candidates for the Ph.D. degree, per annum. (When a student carries a limited schedule, the Secretary of the Graduate Council will adjust the proportionate fee for the year.).... 240.00

**EXAMINATION FEES**  
For examinations to qualify for advanced courses, and for all special examinations, for each subject..... 5.00

**SPECIAL FEES**  
Late-registration fee, charged all students who fail to register within the designated period..... 5.00  
Reinstatement fee, charged students who are reinstated after being suspended for delinquency in fees..... 5.00  
Change fee, for each change in program after registration..... 2.00

### LABORATORY FEES AND DEPOSITS

Laboratory fees are charged in each course listed below, as indicated. Material fees are charged by the term and may be paid in instalments when the tuition is paid in this manner. Breakage deposits are due in full at the time of registration. Breakage of apparatus is charged against the individual student, and the amount paid in excess of breakage will be returned at the end of the Sessions.

**CHEMISTRY**  
Material fee:  
Chemistry 2, 21..... 9.00  
Chemistry 41, 42..... 12.00  
Breakage deposit:  
Chemistry 2-21..... 15.00  
Chemistry 41-42..... 20.00

**EDUCATION**  
Material fee:  
Education 134..... 2.00

**GRAPHIC ART**  
Drawing room fee:  
Graphic Art 5-6, 7, 8, 105, 108, 130..... 3.00

**LIBRARY SCIENCE**  
Material fee:  
Library Science 102, 125, 135, payable in advance..... 1.00

**PHYSICS**

Material fee:

Physics 12, 13..... 4.50

**PSYCHOLOGY**

Material fee:

Psychology 119..... 3.00

**ZOOLOGY**

Material fee:

Zoology 1, 2, 3..... 6.00

Breakage deposit:

Zoology 1-2..... 10.00

**FINANCIAL REGULATIONS**

All fees are payable at the Office of the Comptroller, 2033 G Street NW.

No student is permitted to complete registration or to attend classes until all fees are paid. All fees are due in advance at the time of registration.

In exceptional cases, subject to the approval of the Comptroller, students registering for more than three semester-hours may sign contracts for their charges, except the University fee and deposits, permitting instalment payments as follows: (1) for the nine weeks' term, one third, plus the University fee and deposits, at the time of registration, one third on July 3, and one third on July 17; (2) for the six weeks' term, one half, plus the University fee and deposits, at the time of registration, and one half on July 17; (3) for the first term of the Law School, one half, plus the University fee, at the time of registration; and one half on July 17; (4) for the second term of the Law School, one half, plus the University fee, at the time of registration, and one half on August 15.

Students registering for three hours or less are not privileged to sign contracts for instalment payments.

Students whose fees are not paid in full two school days after the final date mentioned, will be suspended and may not attend classes until they have paid all accrued fees, a reinstatement fee of \$5.00, and have been officially reinstated. A suspended student may not be reinstated for the session after one week from the date of suspension. Applications for reinstatement are to be made to the Dean of the School or Director of the Division in which the student is registered.

No student may register in any department of the University who owes fees in any other department of the University.

Auditors pay all fees chargeable to students registered for credit except the late-registration fee.

High-school and other scholarships do not apply to work taken during the Summer Sessions.

WITHDRAWALS AND REFUNDS

Applications for withdrawal must be made in person or in writing to the Dean of the School or the Director of the Division in which the student is registered. Notification to an instructor is not an acceptable notice.

Registrations in the Law School are for the term, and no refunds or rebates will be allowed on withdrawals.

In authorized withdrawals and changes in schedules in all other Schools and Divisions, financial adjustments will be made on the principle of instalment payments, the student being held responsible for all charges for courses for which he has registered until notice of withdrawal is received by the Dean or Director.

In no case will any part of an initial instalment of tuition be refunded, and in no case will tuition be reduced or refunded because of non-attendance upon classes.

As the fiscal year of the University ends on August 31, no requests for refunds can receive consideration after that date.





THE COLLEGES, SCHOOLS, AND DIVISIONS



# THE JUNIOR COLLEGE

## INTRODUCTORY

The Junior College includes the first two years of college work. Its curriculum is intended to continue the studies of a general cultural nature begun in the secondary schools, and to lay a foundation for the more specialized work which is to follow. During the freshman and sophomore years emphasis is accordingly laid (1) upon the social, cultural, biological, and physical background of civilization (history, political science, physical and biological sciences, literature, etc.) and (2) upon the discipline necessary to the effective prosecution of more advanced work (English rhetoric and composition, foreign languages, mathematics, etc.).

The Junior College also provides the pre-professional work required for admission to the respective Schools of Law, Medicine, Education, Government, Pharmacy, Fine Arts, and Library Science.

In addition, it provides two two-year curricula, leading to the Junior Certificate, which are intended to meet the needs of students who do not look forward to a four-year college course.

## ADVISORY SYSTEM

In order that students may have abundant opportunities, not only for assistance in planning their courses of study, but also for personal, educational, and vocational advice in every phase of their academic work during the first two years, a number of members of the Faculty serve as members of the Board of Advisers to Junior College students. Incoming students will be assigned to advisers as early as possible after registration and will be required to consult their advisers at least once during the summer. Students on probation and "warned" students are required to consult their respective advisers at such stated intervals as the Dean or adviser may direct. (See regulations on scholarship in the general catalogue, and "Warnings," below.) All students are, however, encouraged to consult their advisers on their college problems at any time, irrespective of these requirements. Students are expected to consult with the same advisers throughout their freshman and sophomore years, it being understood that these members of the Faculty act in the capacity of general educational advisers rather than as representatives of their respective departments of instruction.

## ADMISSION

Regarding general admission requirements, see pages 22-23.

### THE CERTIFICATE OF JUNIOR STANDING

Upon the satisfactory completion of the requirements of the Junior College, a Certificate of Junior Standing is granted. This certificate is required for admission to the junior class of Columbian College and to the professional Schools which require two years of pre-professional work.

### REQUIREMENTS FOR THE CERTIFICATE

To be recommended for a Certificate, the student must satisfy the admission, scholarship, and curriculum requirements. The curriculum requirements include at least sixty-four semester-hours of credit. A semester-hour of credit is one recitation or lecture a week or one laboratory period a week for one semester. For further information see the Junior College announcement in the general catalogue.

The scholarship requirements, as stated in detail in the general catalogue, are in effect during the Summer Sessions.

### WARNINGS

At stated intervals during the Summer Sessions instructors shall file in the Office of the Registrar the names of those students who are doing work of *D* grade or lower. These "warnings" shall be transmitted to the students concerned and copies forwarded to their respective advisers. A "warning" constitutes notice to the student that he must consult his adviser within a reasonable time and in any case not later than two weeks after receipt of the warning.

"Warning periods" during the Summer Sessions are established as follows: six-week courses, third to fourth week; nine-week courses, fourth to fifth week.

### COURSES OF INSTRUCTION

Junior College students may not take second-group courses (courses numbered 101 to 200) without previous written permission of the instructor or his representative and the written approval of the Dean of the Junior College. A student will not be permitted to postpone a first-group course, required under the curriculum for which he is registered, in order to take a second-group course for elective credit. The principle that first-group courses must be taken in the Junior College years and advanced courses in the Senior College and the professional Schools, will be rigidly adhered to in approving student programs.



## COLUMBIAN COLLEGE

### ADMISSION

Applicants for admission to Columbian College having the intention of becoming candidates for the degrees of Bachelor of Arts or Bachelor of Science must present a certificate of Junior Standing, based on the appropriate curriculum of the Junior College, or its equivalent.

Applicants for admission to Columbian College having the intention of becoming candidates for the degree of Master of Arts must present a baccalaureate degree from an accredited institution and a transcript of studies previously pursued.

### THE DEGREES

The degrees offered are Bachelor of Arts, Bachelor of Science, and Master of Arts.

In conjunction with the professional curricula the following combined curricula are offered: a six-year curriculum leading to the degrees of Bachelor of Arts and Bachelor of Laws, and a seven-year curriculum leading to the degrees of Bachelor of Arts and Doctor of Medicine.

### THE DEGREES OF BACHELOR OF ARTS AND BACHELOR OF SCIENCE

To be recommended for a baccalaureate degree a student must satisfy the admission, residence, scholarship, and curriculum requirements.

### REQUIREMENTS FOR THE DEGREES

A minimum of one year, or thirty semester-hours, must be completed in residence. Summer Sessions work may be counted in residence, but in no case may the period of residence aggregate less than thirty weeks. Unless special permission is granted by the Executive Chairman to pursue work elsewhere, the work of the senior year must be completed in residence.

The scholarship requirements, as stated in detail in the general catalogue, are in effect during the Summer Sessions.

### CURRICULA LEADING TO THE DEGREES

#### BACHELOR OF ARTS

**B-I. General Curriculum.** The work of the junior and senior years and a major of at least twenty-four semester hours, must be arranged by consultation with the major department and must be approved by that department and by the Executive Chairman.

**D. Combined Curriculum: Bachelor of Arts and Bachelor of Laws.** This curriculum contemplates three years of collegiate study and three years

in The George Washington University Law School, thus effecting a saving of one year.

I. *Combined Curriculum: Bachelor of Arts and Doctor of Medicine.* This curriculum contemplates three years of collegiate study and four years in The George Washington University School of Medicine, thus effecting a saving of one year.

Students wishing to avail themselves of the opportunity offered by the combined curricula must obtain the recommendation of the Executive Chairman of Columbian College at the time of entering the professional School. Upon the completion of the first year of the regular curriculum in the professional School, and upon the recommendation of its Dean, the degree of Bachelor of Arts will be conferred.

#### BACHELOR OF SCIENCE

The work of the junior and senior years and a major of at least twenty-four semester-hours in one of the six sciences mentioned below, must be arranged by consultation with the major department and must be approved by that department.

B-II-a. *Botany, Geology, and Zoology Curriculum.* Geology 21-22 must be taken if not elected earlier.

B-II-b. *Chemistry, Mathematics, and Physics Curriculum.* If Botany has been elected earlier, Geology 21-22 or Zoology 1-2 must be taken. If Geology has been elected earlier, either Botany 1-2 or Zoology 1-2 must be taken.

#### GENERAL REGULATIONS

Every candidate for graduation must satisfy one of the four above-mentioned curricula leading to the degrees of Bachelor of Arts or Bachelor of Science.

The requirements for the major in the several departments of instruction are stated immediately preceding the announcement of courses offered, in the case of curricula B-I, B-II-a, and B-II-b in Columbian College, in the general catalogue. The first year of Law or Medicine satisfies the requirements for the major in the combined Arts and Law and Arts and Medicine curricula respectively.

Students are required to select and file with the Registrar a choice of a major upon entering Columbian College. Students may change the major only with the consent of the Executive Chairman and the executive officers of the departments concerned.

#### THE DEGREE OF MASTER OF ARTS

A student is formally recognized as a candidate for the degree of Master of Arts only when his application for candidacy has been approved by the

major department and by the Executive Chairman. Before being admitted to candidacy the student must show a reading knowledge of at least one modern foreign language to be selected by the major department.

#### REQUIREMENTS FOR THE DEGREE

Candidates for the degree of Master of Arts must complete successfully thirty semester-hours of work forming a consistent plan of study. A thesis, counting six semester-hours of the above thirty semester-hours, may or may not be required at the discretion of the major department. At least eighteen semester-hours must be in the major subject, and at least eighteen semester-hours, including the major, must be taken in Columbian College.

Courses may be elected from one, two, or three departments with the approval of the major department. The minimum amount of work in any one subject (not course) which may be counted is six semester-hours.

The program of study must include at least twelve semester-hours of third-group courses (numbered above 200), exclusive of the thesis, unless the major department gives written permission to count less.

Second-group courses (numbered 101 to 200) taken in the senior year of college may be counted, provided that the student shall notify the Executive Chairman of Columbian College at the beginning of such courses of his desire to count them, and provided that the student shall have done such extra work in the courses as may be prescribed by the department concerned. No work counted towards the baccalaureate degree may be counted towards a Master's degree.

Advanced work in other institutions of learning may be credited toward the Master's degree to the extent of not more than six semester-hours upon presentation of detailed certificates of the work for which credit is sought. However, if such work in other institutions is done during the student's period of residence in The George Washington University, it will not be so counted unless the student has obtained the written permission of his major department *before* entering upon such work. Such allowance of credit will be at the discretion of the Committee on Admission and Advanced Standing.

Work completed here, or elsewhere, more than three years prior to registration for the Master's degree, will be counted only if the candidate successfully passes an examination on the subject-matter of the work offered for credit.

A minimum of one year must be completed in residence. Summer Sessions work may be counted in residence, but in no case may the period of residence aggregate less than twenty-seven weeks.

In addition to the course examinations, candidates must pass a general final examination on the major subject. The examination may be either oral or written, or both.



## THE GRADUATE COUNCIL

### REGISTRATION

Before registration the applicant will file with the Director of Admissions transcripts showing that he has the Bachelor's degree from an approved institution and that he has had a year of graduate work equivalent to that required for the Master's degree in Columbian College. He will also file the names of three competent persons who may be called upon to give their estimates of his ability and training for carrying on research work in his chosen field.

The applicant will obtain the proper registration blanks from the office of the Secretary of the Graduate Council, where he will be directed to a member of the Council whom he desires to have serve as chairman of his Consultative Committee. This committee will examine and evaluate the applicant's credentials and may interview the applicant.

The Consultative Committee will designate five or six fields of learning for which the applicant will be held, will furnish an outline of the work to be done, and will send a copy of the outline to the Secretary.

The applicant will return to the office of the Secretary of the Graduate Council to complete his registration, and will go to the Bursar's Office to pay his fees. Thereupon the applicant becomes a Registrant for the degree of Doctor of Philosophy.

### THE DEGREE OF DOCTOR OF PHILOSOPHY

The Graduate Council offers training for the degree of Doctor of Philosophy.

### CHOICE OF STUDIES

Registrants should in general choose their fields of study from one of the following divisions. Only with the permission of the Graduate Council may all the work be in one department. The divisions are as follows: (1) *the Division of Languages and Literatures*, which comprises the Departments of Classical Languages and Literatures, English, Germanic Languages and Literatures, and Romance Languages and Literatures; (2) *the Division of Mathematics and the Physical Sciences*, which comprises the Departments of Biochemistry, Chemistry, Mathematics, Pharmacology, and Physics; (3) *the Division of the Natural Sciences*, which comprises the Departments of Anatomy, Bacteriology, Botany, Geology, Neurology, Pathology, Physiology, Psychology, and Zoology; (4) *the Division of the Social Sciences*, which comprises the Departments of Economics, Education, History, Law, Philosophy, Political Science, Public Speaking, and Sociology.



#### MODERN-LANGUAGE AND TECHNICAL REQUIREMENTS

On admission the Registrant should demonstrate his ability to use as a tool of research a reading knowledge of German, French, or Spanish. His Consultative Committee will designate the other language and technical requirements, which are to be fulfilled as early as possible and which must be satisfied before the Registrant takes his general examination. The Registrant will confer with the executive officers of the departments concerned for the exact date.

#### SELECTION OF THESIS SUBJECT

The Registrant must select his thesis subject, receive the approval of the professor in whose field the thesis falls, and file it with the Secretary of the Graduate Council before he takes his general examination.

#### SUPERVISION

The quality of work performed by the Registrant shall be subject to the evaluation of the Consultative Committee, which shall report to the Secretary any unsatisfactory conditions which may be cause for the Registrant's discontinuance of his studies.

#### GENERAL EXAMINATION

By November 1, if he expects to receive his degree the following June, and by May 1, if he expects to receive his degree the following February, the Registrant must have passed a general examination testing him for a comprehensive and thorough knowledge of his fields of learning, to be conducted by a committee appointed by the Secretary of the Graduate Council. This examination shall consist of two parts—one oral and one written. The questions and answers to the written examination shall be sent to the Secretary of the Graduate Council and shall become a part of the Registrant's file. The examination on the field in which the thesis falls may, at the option of the committee, be left until the final examination.

Having passed his general examination the Registrant becomes a Fellow of the Graduate Council and a candidate for the degree.

#### FINAL YEAR OF CANDIDACY

The final year of candidacy shall be spent at The George Washington University unless permission is granted by the Graduate Council, on recommendation of the professor in charge of the Fellow's program, to spend it elsewhere. Such permission will not affect the requirement of taking the final examinations here.

### THE DOCTORAL THESIS

Not later than the date specified in the University calendar the Fellow shall present to the Secretary of the Graduate Council two typewritten copies of his thesis in its final form and also a typewritten summary of the thesis consisting of not more than 2,500 words. The Secretary will present the Fellow's thesis to the chairman of the committee of the candidate.

The summaries of accepted theses will be printed in a volume forming a number of the University Bulletin. The successful candidate for the Doctorate is required to pay, before receiving his degree, a fee of \$50 to cover the expense of printing the summary of his thesis. The Fellow having received the degree of Doctor of Philosophy is urged to print his thesis in full.

### FINAL EXAMINATION

When the Fellow is ready for his final examination on the thesis and on the field in which the thesis falls, he complies with the requirements specified in the calendar and so informs the Secretary of the Graduate Council. The final examination will be conducted by a committee composed of members of the division and experts from outside the University. The professor in charge of the Fellow's research will be chairman of this committee.

### REGULATIONS

Registrants and Fellows in the Graduate Council are subject to the University regulations as stated in the general catalogue.

### CHANGE OF COURSE AND WITHDRAWAL

A Registrant or Fellow desiring to change his course must secure the permission of the Secretary of the Graduate Council. In case of withdrawal from the University, prompt notice should be sent to the Secretary of the Graduate Council.

## THE LAW SCHOOL

### INTRODUCTORY

The Summer Session of the Law School will cover a period of thirteen weeks, divided into two terms of six and one-half weeks each. Classes in the first term will begin Monday, June 12, and end Saturday, July 22. Examinations will be held July 24, 25, and 26. Classes in the second term will begin Thursday, July 27, and end Wednesday, September 6. Examinations will be held September 8. Tuesday, July 4, and Monday, September 4, will be holidays; classes scheduled for those days will meet instead on Saturday, July 8, and Saturday, September 2.

### ADMISSION

The requirements for admission are the same as those for the regular session, as stated in the Law School announcement in the general catalogue. For candidates for the degree of Bachelor of Laws the requirement is the completion before admission of two years (sixty semester-hours) of college work. Students from other law schools may be admitted for the Summer Session only as regular or as unclassified students. Unclassified students must comply with the same entrance requirements as candidates for the degree of Bachelor of Laws.

Qualified students are permitted to begin the study of Law in the first term of the Summer Session, but not in the second term.

Beginning students who complete successfully the work of both terms of the Summer Session may register for a full program of late-afternoon work during the next regular academic year. Those who fail to complete successfully the work of both terms may be required to take during the next academic year less than a full program of work if the schedule of classes makes this necessary or the grade of their work during the Summer Session makes it desirable.

### THE DEGREES

The Law School offers the degrees of Bachelor of Laws and Master of Laws. Regarding requirements for these degrees, see the Law School announcement in the general catalogue.

### RESIDENCE AND ATTENDANCE

The Summer Session is a regular part of the work of the School. The character of the instruction, the amount and grade of work required, and the rules and regulations as to residence, attendance upon classes, and grades, are the same as in the regular session of the academic year. Credit is given for subjects completed by regularly qualified students.



Residence credit is given for one fifth of a part-time year for attendance in one term of the Summer Session. A part-time year is three fourths of a full-time year and one fourth of the residence requirement for the degree of Bachelor of Laws. In no case will residence credit amounting to more than this be allowed for attendance during the Summer Session. No student will be recommended for the degree for which he is a candidate unless he has completed the requirements for residence as well as those for semester-hours in subjects. A student who at the end of the Summer Session has completed subjects which equal in semester-hours the total number of semester-hours required for the degree for which he is a candidate, but has failed to complete the full residence requirements for that degree, must be in residence during the first semester of the next academic year and pass the examination in at least one subject.

#### COURSES OF INSTRUCTION AND CREDITS

The schedule is so arranged that work may be taken in the morning or in the late afternoon, or part in the morning and part in the late afternoon.

Classes in morning subjects are held from Tuesday to Saturday, inclusive; classes in afternoon subjects, from Monday to Friday, inclusive.

Students may obtain a maximum of four semester-hours of credit in each term by attendance in two subjects aggregating ten periods a week, or by attendance in one subject ten periods a week.



# THE SCHOOL OF EDUCATION

## INTRODUCTORY

It is the purpose of the School of Education to prepare teachers, supervisors, and administrators for the higher ranges of educational service and to offer opportunities to teachers of experience to extend their training. The School embraces the Departments of Education, Physical Education, and Home Economics, and it is affiliated with all the other departments of the University in which the student is likely to elect work. Both graduate and undergraduate work is offered. The degrees of Bachelor of Arts in Education, Bachelor of Science in Home Economics, Bachelor of Science in Physical Education, Master of Arts, and Doctor of Education are conferred.

## ADMISSION

Admission to the undergraduate division of the School is based on (a) the satisfactory completion of two years of approved college work, or (b) graduation from an approved two-year normal school. Students meeting these requirements are admitted as regular students.

To be admitted to graduate standing a candidate must hold a baccalaureate degree from an accredited school or college. Candidates holding degrees from unaccredited institutions, whose work is judged by the Faculty to be more than twelve semester-hours short of a standard baccalaureate degree, must register for the Bachelor of Arts degree.

Graduate work completed in other accredited institutions of learning may be credited toward the Master's degree to the extent of six to twelve semester-hours.

Advanced courses completed in excess of the requirements for the baccalaureate degree in The George Washington University may be credited toward the Master's degree to the extent of twelve semester-hours, provided the work is approved in writing by the Dean before it is undertaken.

Transferred work completed more than three years prior to registration for a higher degree at The George Washington University will be credited only if the candidate successfully passes an examination given by his committee on the subject-matter of the work offered for credit.

## THE DEGREES OF BACHELOR OF ARTS AND BACHELOR OF SCIENCE

A minimum of one full year, or thirty semester-hours, must be completed in residence. Summer Sessions work may be counted in residence, but in no case may the period of residence aggregate less than thirty weeks. Unless special permission has been granted by the Faculty to pursue the work elsewhere, the last work before graduation must be completed in residence.

**BACHELOR OF ARTS IN EDUCATION**

On students admitted with two years of approved college work the University confers the degree of Bachelor of Arts in Education upon the completion of sixty-six semester-hours of work. This work must include:

	Sem. hrs.
Educational Psychology.....	3
History of Education.....	3
Principles and Technique of Teaching.....	4
Elementary or Secondary Education.....	4
Observation and Practice Teaching.....	6
Electives in Education.....	7
Subject-matter group.....	24
Electives.....	15
Total.....	66

To the extent that courses in the foregoing list are offered for admission, the range of electives is increased, leaving room for a minor teaching subject.

On graduates from approved two-year normal schools the degree of Bachelor of Arts in Education is conferred upon the completion of seventy-two semester-hours of work, exclusive of six semester-hours of credit granted for successful teaching experience, but inclusive of twelve semester-hours in Education, a subject-matter group, and any unfinished junior-college requirements. The unfinished requirements should be determined in consultation with the Dean.

**BACHELOR OF SCIENCE**

For detailed information concerning curricula leading to degrees of Bachelor of Science in Home Economics and Bachelor of Science in Physical Education, see the general catalogue.

**HIGHER DEGREES**

The work for a higher degree is conducted under the guidance of a Consultative Committee appointed by the Dean. It is the duty of this committee to outline and approve the student's program of studies, to advise and direct the student in the preparation of his thesis, and to arrange his general examinations. The chairman of the committee is the student's adviser.

**MASTER OF ARTS**

A candidate must pass in resident study at this University at least two semesters, or one semester and a nine-week summer term, or three nine-week summer terms, or four six-week summer terms.

A student whose previous preparation in his chosen field has been adequate may complete his class requirements by taking a minimum of twenty-four semester-hours of work; others may be required to take as many as twelve semester-hours additional. At least six semester-hours of work must be chosen from courses numbered above 200.

The thesis counts as six semester-hours of work toward the degree and must be duly registered for. The thesis subject must be approved in writing by the student's adviser and recorded in the Registrar's Office not later than the beginning of the semester or summer session in which the thesis is due.

#### DOCTOR OF EDUCATION

The degree of Doctor of Education is conferred upon the completion of three years of graduate work, including a thesis. The work required is given a practical instead of a theoretical bent and emphasizes the mastery and application of professional subject-matter, both in the study requirements and in the thesis. The tools of investigation are not set, but are determined by the student's committee in relation to the student's needs. These tools may include statistical methods, historical criticism, and the use of one or more foreign languages. At least two semesters must be spent in residence at this University. Special emphasis is placed upon the candidate's success in teaching, supervision, administration, or publication.

For the requirements in detail, see the general catalogue.

The degree of Doctor of Philosophy in which a major or minor in Education may be included, is under the jurisdiction of the Graduate Council.



# THE SCHOOL OF GOVERNMENT

## INTRODUCTORY

The School of Government offers training to students who are interested in governmental, economic, and social problems, as well as to those who are preparing for the domestic and foreign service of the United States and for positions in business.

## ADMISSION

Admission to undergraduate work is based upon a Junior Certificate in Government from the Junior College of this University, or its equivalent.

Admission to work for the Master's degree is based upon a Bachelor's degree which includes the proper basic training for the degree sought. For instance, admission to work for the Master's degree in Domestic Commerce is based upon a Bachelor's degree with training approximately equivalent to the Bachelor's degree in Domestic Commerce.

A student is formally recognized as a candidate for the Master's degree only when his application for candidacy has been approved by the Executive Chairman of the School of Government. Before being admitted to candidacy he must show a reading knowledge of at least one foreign language.

Advanced work in other institutions may be credited toward the Master's degree to the extent of not more than twelve semester-hours.

## THE DEGREES

The degrees offered are Bachelor of Arts and Master of Arts. For a complete statement of the requirements for these degrees, see the announcement of the School of Government in the general catalogue.

### THE DEGREE OF BACHELOR OF ARTS

The curricula leading to the Bachelor's degree are six in number: Government; Business Administration; Finance; Domestic Commerce; Foreign Service; and Foreign Commerce. The requirements of these curricula are set forth in the general catalogue.

### THE DEGREE OF MASTER OF ARTS

For the degree of Master of Arts, thirty semester-hours of work, distributed at the discretion of the Executive Chairman, must be completed successfully. A thesis, counting six semester-hours, may or may not be required.



## THE DIVISION OF LIBRARY SCIENCE

### ADMISSION

Regarding general admission requirements, see pages 22-23.

The minimum educational requirement is two years of college work in an approved college or university, with at least two years of French or German, and courses in history, sociology, literature, and science.

Persons not candidates for degrees may take courses in Library Science. Such students are referred to the Division of University and Extension Students.

### THE DEGREE

The courses in Library Science are designed to give students professional training that will prepare them to enter upon active library service. A two-year upper-division curriculum, in combination with the required Junior College work, leads to the degree of Bachelor of Arts in Library Science.

### REQUIREMENTS FOR THE DEGREE

To obtain a degree of Bachelor of Arts in Library Science, candidates must have satisfied the admission requirements and completed satisfactorily 120 semester-hours of work, including the curriculum specifications, French and German, and not less than thirty hours in Library Science. Residence may be satisfied in the Summer Sessions by periods aggregating not less than thirty weeks.

Those entering with a Bachelor's degree from an approved college or university, may obtain a degree of Bachelor of Arts in Library Science upon the satisfactory completion of thirty semester-hours in Library Science, provided their previous courses have met the requirements of the Division of Library Science.

## THE DIVISION OF FINE ARTS

### INTRODUCTORY

The Division of Fine Arts is composed of the Department of Architecture and the Department of Graphic Art.

The purpose of the Department of Architecture is to give the student a knowledge of, and make him proficient in, the fundamental work involved in the design and construction of buildings. The creative work is most important for the professional architect, and to this end the training in expression and design in the graphic arts is especially stressed. The other work necessary for the complete academic preparation of the student to practice as a professional architect complements the creative work in the Architecture course. For those who find themselves more adapted to the actual construction or administration of buildings, courses in Business Administration, Civil Engineering, and Building Construction are substituted for the Architectural Design courses and Graphic Art work.

The purpose of the Department of Graphic Art is to give the student a knowledge and appreciation of the fine arts, and to enable him to acquire a proficiency in expression through the different mediums used in the graphic arts. For those who find themselves more interested in the history and criticism of art than in expression through the graphic arts, courses in the History of Architecture and other allied work are substituted for the Graphic Art work. For those who expect to major in Illustration, extended work in this field is offered.

### ADMISSION

Admission to the Division of Fine Arts for undergraduate work is based on a Junior Certificate or on the evidence of the satisfactory completion of two years of college work. These requirements include certain specified courses in the Junior College.

To be admitted to candidacy for the Master of Arts degree in this Division, a student must usually present a Bachelor's degree with a major in the appropriate work, from an accredited institution. To be admitted to candidacy for the Master of Fine Arts degree, a student must present either a Bachelor of Architecture degree or a Bachelor of Fine Arts degree from an accredited institution, or its equivalent. Students from unaccredited institutions may be admitted, at the discretion of the Faculty, if recommended by the major department. Such students shall complete one semester's work in the Division of Fine Arts and receive the recommendation of the major department before registering for the degree.

Advanced credit from art and architecture schools which are not

affiliated with an accredited college or university, may be established by registering in more advanced work of the same type for which credit is desired. If the work is satisfactory, the credit will be transferred from the institution at which previous training was received. Practical experience alone will not be accepted for advanced credit.

Mature experience in the field of Architecture or Art will be required of students taking special work. Special students and auditors are referred to the Division of University and Extension Students.

### THE DEGREES

The Department of Architecture offers curricula in which the student may earn a degree of (1) Bachelor of Arts with a major in one of the following—(a) Architecture, (b) Building, (c) Building Administration; or (2) Bachelor of Architecture.

The Department of Graphic Art offers curricula in which the student may earn a degree of (1) Bachelor of Arts with a major in one of the following—(a) Illustration, (b) Art; or (2) Bachelor of Fine Arts.

Graduate work is offered in both Departments leading to the degrees of Master of Arts and Master of Fine Arts. A detailed statement of requirements, curricula leading to the degrees, and scholarship regulations will be found in the general catalogue.

## THE SCHOOL OF ENGINEERING

The School of Engineering will offer no courses in departments of Civil Engineering, Electrical Engineering, and Mechanical Engineering this summer. Undergraduate students in the School of Engineering will find an opportunity, however, to take other required courses and electives such as Chemistry, Economics, English, Languages, Mathematics, Physics, and Political Science.

Students in the School of Engineering are urged to consult with Dean John R. Lapham and departmental advisers in planning to take required courses and electives in the Summer Sessions.



# THE DIVISION OF UNIVERSITY AND EXTENSION STUDENTS

## INTRODUCTORY

The Division of University and Extension Students was organized in 1930 in order to make the work of the University in its several divisions more fully accessible to mature students and to provide for the offering of special courses to meet special demands as they may arise from time to time. Students registered in this Division are designated "university" and "extension" students, as distinguished from regularly matriculated undergraduate and graduate students.

## ADMISSION

Men and women over twenty-one years of age may apply for admission as university and extension students, to pursue courses for which they have had adequate preparation. In each case the approval of the instructor concerned must be obtained. Applicants for admission must present a complete statement of the work previously pursued, on the regularly accepted form of the University. In any case where a student is found unable to pursue with advantage a course for which he is registered, such student may be dropped from the rolls of that course upon the recommendation of the instructor and with the approval of the Director.

Students regularly registered in some other college or university, and in good standing, whose program of work in the Summer Sessions of The George Washington University has been approved by the college or university in which they are registered, may be enrolled in the Division of University and Extension Students.

In special instances, with the permission of the instructor, a person may be registered as an "auditor" in a class without being required to take active part in the exercises or to pass examinations, but no credit will be allowed for such attendance.

## UNIVERSITY STUDENTS IN LAW

A limited number of persons who cannot qualify as candidates for a degree in Law, but who are over twenty-five years of age and because of their maturity, educational training, and practical experience seem qualified to pursue the study of Law, may be admitted as university students.

Candidates for admission as university students in Law must file written applications, setting forth their qualifications in detail, and

letters and certificates to prove the facts stated therein as to their education and experience. Work done by such University students will not be counted toward a degree.

#### TRANSFER TO REGULAR STATUS

University and extension students may be transferred, at their request, to other Divisions, Schools, and Colleges of the University only upon complying with the regulations of the specific Divisions, Schools, and Colleges as stated in the general catalogue.

COURSES OF INSTRUCTION





## COURSES OF INSTRUCTION

Courses will be offered in the Junior College, Columbian College (the Senior College), the Graduate Council, the Law School, the School of Education, the School of Government, the Division of Library Science, the Division of Fine Arts, and the Division of University and Extension Students. Students in the School of Engineering will have the opportunity to take many of their elective and required courses in the Junior College and Columbian College curricula.

The courses of instruction listed below are subject to some slight change. Courses preceded by an asterisk (\*) are in the six weeks' term, beginning July 3; all other courses begin on June 12, unless otherwise stated. Courses preceded by a dagger (†) can be taken only as one unit; no credit is given for separate halves. The number of semester-hour credits is stated after the title of each course.

### BOTANY

- \*5 *Field Botany* (4)

Field trips to neighboring localities of botanical interest, with classroom study. Daily except Saturday, 1.10 to 4.00 p.m.

Griggs and Assistant
- 106 *Pre-session Field Trip* (2)

To the Carolina mountains. Dates: June 8 to 21. Open to students only with the consent of the instructor

Griggs
- 107 *Post-session Field Trip* (2)

To the Pine Barrens of New Jersey. Dates: August 14 to 26. Open to students only with the consent of the instructor.

Griggs and Assistant
- \*125 *Physiological Plant Anatomy* (4)

Special adaptations of plants to unusual environments. Pre-requisite: Botany 1-2, or 5, or the equivalent. Daily except Saturday, 9.40 a.m. to 12.00.

Griggs and Assistant
- 211 *Research*

Laboratory investigation of special problems. Credits and hours to be arranged.

Griggs

### CHEMISTRY

- 2-21 *General Chemistry and Inorganic Qualitative Analysis* (4-4)

For those who have had high-school Chemistry or the equivalent. Chemistry 2, June 12 to July 12; Chemistry 21, July 13 to August 11. Material fee, \$9.00 a semester; breakage deposit,

Kaveler and Assistant

\$15.00. Daily except Saturday, 8.40 to 9.45 a.m. and 9.55 a.m. to 1.30 p.m.

- †41-42 *Organic Chemistry* (4-4) Mackall and Assistant  
Material fee, \$12.00 a semester; breakage deposit, \$20.00. Daily except Saturday, 8.40 to 9.45 a.m. and 9.55 a.m. to 1.30 p.m.
- 297 *Research* The Staff  
Credits and hours to be arranged.

## ECONOMICS

- †1-2 *Principles of Economics* (3-3) Buchanan  
An analysis of the existing economic order and its problems. Daily except Saturday, 6.10 to 8.00 p.m.
- 21-22 *Principles of Accounting* (3-3) Owens  
The principles and procedures of double-entry accounting. Daily except Saturday, 6.10 to 8.00 p.m.
- 105 *History of Commerce* (3) Kennedy  
Historical development of commerce and industry; origins of economic institutions. Daily except Saturday, 7.10 p.m.
- \*106 *Economic History of the United States* (2) Kennedy  
The economic development of the nation and of its recent commercial and industrial problems. Daily except Saturday, 10.40 a.m.
- 109 *Commercial Geography* (3) Donaldson  
A survey of the world's basic resources, industries, and commerce. Daily except Saturday, 6.10 p.m.
- 119 *Money and Banking* (3) Sutton  
The interrelations of money, credit, and prices; banks and their operation. Prerequisite: Economics 1-2. Daily except Saturday, 5.10 p.m.
- \*136 *Investments* (2) Sutton  
Principles of investment analysis and selection applied to securities currently offered; emphasis upon social aspects. Prerequisite: Economics 135. Daily except Saturday, 6.10 p.m.
- \*147 *Principles of Merchandising* (2) Surface  
A survey of marketing principles approached from the consumer viewpoint. Daily except Saturday, 5.10 p.m.
- \*197-98 *Seminar-Conference: Hispanic American Affairs* (2-2) Wilgus and Visiting Staff  
Group study confined to the Caribbean. Daily except Saturday, 9.40 to 11.30 a.m.

- 251 Seminar (3)  
Wednesday, 8.10 p.m.

Donaldson

#### EDUCATION

- 111 *History of Education* (3) Coyner  
A survey of man's cultural development, together with the evolution of educational theory and practice used to transmit it. Daily except Saturday, 7.40 a.m.
- \*118 *The Activity Program* (2) Hahn  
A study of underlying principles, together with a critical analysis of current practices. Daily except Saturday, 8.40 a.m.
- \*134 *Educational Measurement* (2) Dreese  
A course planned to introduce elementary and high-school teachers to the newer types of examinations, to standardized tests, and to their use in education. Material fee, \$2.00. Daily except Saturday, 8.40 a.m.
- \*142 *The Kindergarten-Primary Problem* (2) Hahn  
A study of integrating pre-school and school education and of leading children into meaningful learning activities. Daily except Saturday, 9.40 a.m.
- \*147 *Psychology of Elementary-School Subjects* (2) Coyner  
An analysis of the learning processes involved in the elementary-school subjects, with special reference to methods of instruction. Daily except Saturday, 11.40 a.m.
- \*151 *The High School* (2) Powers  
Aims and functions; program of study; guidance; standardization; plant; teaching procedures. Daily except Saturday, 9.40 a.m.
- \*152 *The Junior High School* (2) Powers  
History of the movement; special purposes and appropriate organization; program of studies; classification of pupils; methods of instruction. Daily except Saturday, 10.40 a.m.
- \*155 *Guidance in Secondary Schools* (2) Dreese  
The principles and techniques of educational and vocational guidance. Daily except Saturday, 11.40 a.m.
- \*157 *Teaching of History* (2) Wilgus  
A course in practical problems designed for teachers in junior and senior high schools. Daily except Saturday, 8.40 a.m.
- \*189 *Foreign School Systems* (2) Abel  
A study of schools and schooling in the leading European and Latin American countries. Daily except Saturday, 7.40 a.m.



- \*201 *Seminar: Psychology of Learning* (3) Dreesse  
A survey of experimental studies accompanied by inductive investigations. For graduate students. Daily except Saturday, 10.40 a.m.
- \*217 *Seminar: Contemporary Movements in Education* (3) French  
A survey of some current problems in Education, with historical backgrounds. Daily except Saturday, 11.40 a.m.
- \*285 *Seminar* (3) Powers  
High-school administration. For graduate students. Daily except Saturday, 7.40 a.m.
- 291-92 *Thesis* (3-3) The Staff  
Students working on Master's theses will register for this course. The group will hold its first meeting on Monday, July 10, at 8.00 p.m., in room D-15.

See also Psychology 119, *Psychological Tests*; Psychology 131, *Statistics in Psychology*; and Sociology 111, *Educational Sociology*.

#### SPECIAL CONFERENCES IN EDUCATION

These special conferences, under the direction of Professor William C. French, Ph.D., are open to students for credit upon completion of course requirements. Formal registration must be completed before the opening of each conference. A special circular of detailed information will be sent upon request.

- 293 *Conference on Curriculum* (1) French and Visiting Staff  
Directors of curriculum will present procedures and discuss controversial issues in curriculum making. For graduate students; advanced undergraduates and auditors may register by permission. Dates: July 3, 5, 6, 7, and 8. Hours: 2.10 to 4.00 p.m. and 7.10 to 9.00 p.m.
- 294 *Conference on Indian Life and Education* (1) French and Visiting Staff  
For teachers in the Indian Service, elementary teachers of the Indian unit, and those interested in Indian life. For graduate students; advanced undergraduates and auditors may register by permission. Dates: July 10, 11, 12, 13, and 14. Hours: 2.10 to 4.00 p.m. and 7.10 to 9.00 p.m.
- 295 *Conference on the National Survey of Secondary Education* (1) French and Visiting Staff  
For administrators, supervisors, and secondary teachers. For graduate students; advanced undergraduates and auditors may register by permission. Dates: July 17, 18, 19, 20, and 21. Hours: 2.10 to 4.00 p.m. and 7.10 to 9.00 p.m.



- 296 *Conference on Educational Relations to Socio-economic Problems* (1) French and Visiting Staff  
Presentation of nation-wide educational issues by directors from the American Federation of Labor, the United States Office of Education, the United States Chamber of Commerce, and others. For graduate students; advanced undergraduates and auditors may register by permission. Dates: July 31, August 1, 2, 3, 4, and 5. Hours: 2.10 to 4.00 p.m. and 7.10 to 9.00 p.m.

ENGLISH

- \*1 *English Rhetoric* (2) Wilbur  
First semester. Daily except Saturday, 5.10 p.m.
- \*2 *English Rhetoric* (2) Wilbur  
Second semester. Daily except Saturday, 6.10 p.m.
- 51 *Survey of English Literature* (3) Smith  
First semester. Daily except Saturday, 5.10 p.m.
- 52 *Survey of English Literature* (3) Smith  
Second semester. Daily except Saturday, 6.10 p.m.
- \*138 *Shakespeare* (2) Wilbur  
The Philosophies. Daily except Saturday, 4.10 p.m.
- \*142 *The Neo-classical Movement* (2) Croissant  
Second semester. Daily except Saturday, 5.10 p.m.
- \*152 *The Romantic Movement* (2) Smith  
Second semester. Daily except Saturday, 9.40 a.m.
- \*183 *The English Drama* (2) Croissant  
First semester: from origins to 1642. Daily except Saturday, 6.10 p.m.
- \*193 *The Appreciation of Literature* (2) Croissant  
Literary criticism and principles of literature. Daily except Saturday, 8.40 a.m.
- 270 *Early American Literature* (3) Bolwell  
Pro-seminar for graduate students in national cultural origins. Open to advanced undergraduates only by special permission. Daily except Saturday, 5.10 p.m.

GEOLOGY

- \*5 *Field Geology* (4) Bassler  
Field trips to neighboring localities of geological interest, with classroom study. Daily except Saturday, 5.10 to 7.00 p.m.; field work Saturday afternoon.

- 215 *Research* Bassler  
Field and laboratory investigation of special problems. Credits  
and hours to be arranged.

## GERMAN

- †1-2 *First-Year German* (3-3) Rogers  
Essentials of grammar and translation of simple prose. Daily  
except Saturday, 6.10 to 8.00 p.m.
- †5-6 *Second-Year German* (3-3) Hughes  
Composition and conversation; readings in prose and poetry.  
Daily except Saturday, 5.10 to 7.00 p.m.

## GRAPHIC ART

- \*5-6 *Pencil Sketching* (2) Davis  
Drawing room fee, \$3.00. Section A, daily except Saturday,  
8.40 to 11.00 a.m. Section B, daily except Saturday, 5.10 to  
7.40 p.m.
- \*7 *Water Color* (2) Davis  
Outdoor sketching. Drawing room fee, \$3.00. Section A, daily  
except Saturday, 8.40 to 11.00 a.m. Section B, daily except  
Saturday, 5.10 to 7.40 p.m.
- \*8 *Water Color* (2) Davis  
Outdoor sketching. Drawing room fee, \$3.00. Section A, daily  
except Saturday, 8.40 to 11.00 a.m. Section B, daily except  
Saturday, 5.10 to 7.40 p.m.
- \*105 *Advanced Pencil Sketching* (2) Davis  
Drawing room fee, \$3.00. Section A, daily except Saturday,  
8.40 to 11.00 a.m. Section B, daily except Saturday, 5.10 to  
7.40 p.m.
- \*108 *Advanced Water Color* (2) Davis  
Outdoor sketching. Drawing room fee, \$3.00. Section A, daily  
except Saturday, 8.40 to 11.00 a.m. Section B, daily except  
Saturday, 5.10 to 7.40 p.m.
- \*130 *Sketching in Oil* (2) Davis  
Sketching and composition of landscape and architectural sub-  
jects. Drawing room fee, \$3.00. Section A, daily except Sat-  
urday, 8.40 to 11.00 a.m. Section B, daily except Saturday,  
5.10 to 7.40 p.m.

## HISTORY

- <sup>1</sup> *American History* (3) Wilgus  
A general introductory course in the history of the American Colonies and of the early National Period. Daily except Saturday, 7.40 a.m.
- <sup>23</sup> *Civilization of the Ancient World* (3) Kayser  
A study of the ancient Near East, Greece, and Rome. Daily except Saturday, 6.10 p.m.
- <sup>37</sup> *Modern European History* (3) Ragatz  
The development of Western civilization from the age of exploration through the Napoleonic Wars. Daily except Saturday, 5.10 p.m.
- <sup>\*145</sup> *Intellectual Aspects of the Renaissance* (2) Kayser  
Daily except Saturday, 11.40 a.m.
- <sup>\*156</sup> *The Rise of Nationalism* (2) Kayser  
Daily except Saturday, 5.10 p.m.
- <sup>\*157</sup> *Teaching of History* (2) Wilgus  
A course in practical problems designed for teachers in junior and senior high schools. Daily except Saturday, 8.40 a.m.
- <sup>\*197-98</sup> *Seminar-Conference: Hispanic American Affairs* (2-2) Wilgus and Visiting Staff  
Group study confined to the Caribbean. Daily except Saturday, 9.40 to 11.30 a.m.
- <sup>211</sup> *Pro-seminar in Modern European History* (3) Ragatz  
Triple Alliance and Triple Entente, 1871-1914. Tuesday and Thursday, 8.10 to 10.00 p.m.

## LAW

- <sup>133-34</sup> *Personal Property* (4) Benson  
Larrimore's Cases on Personal Property. Daily except Saturday, 5.10 to 7.00 p.m., first term.
- <sup>141-42</sup> *Torts* (4) Collier  
Beale's Edition of Ames and Smith's Cases on Torts. Daily except Saturday, 5.10 to 7.00 p.m., second term.
- <sup>151-52</sup> *Agency* (4) Fryer  
Mechem's Cases on Agency (2d ed. by Seavey). Daily except Saturday, 5.10 to 7.00 p.m., second term.
- <sup>163-64</sup> *Bills and Notes* (4) Oppenheim  
Britton's Cases on Bills and Notes (2d ed.) Daily except Saturday, 5.10 to 7.00 p.m., first term.



- 170 *Domestic Relations* (2) Hunter  
Madden's Cases on Domestic Relations. Monday and Thursday, 5.10 to 7.00 p.m., and Wednesday, 6.10 p.m., first term.
- 185 *Quasi-contracts* (2) Van Vleck  
Thurston's Cases on Quasi-contracts. Tuesday and Friday, 5.10 to 7.00 p.m., and Wednesday, 5.10 p.m., first term.
- 213-14 *Corporations* (4) Davison  
Warren's Cases on Corporations and Dodd's Supplement to Warren's Cases. Daily except Saturday, 5.10 to 7.00 p.m., second term.
- 215 *Equity III* (2) Hunter  
Case book to be announced. Daily except Monday, 7.40 a.m., first term.

## LIBRARY SCIENCE

- \*102 *Cataloguing* (4) Lathrop  
The principles of cataloguing according to Library of Congress rules. Material fee, \$1.00. This course meets the curriculum requirement of Library Science 101-2 for the Bachelor's degree in Library Science. Daily except Saturday, 5.10 to 7.00 p.m.
- \*125 *Library Routine* (2) Lathrop  
Technical processes in operating a library, including ordering, accessioning, inventory, withdrawals, shelving, filing, mending, binding, and other topics. Material fee, \$1.00. Daily except Saturday, 7.10 p.m.
- \*135 *Children's Literature* (2) Lathrop  
Types of juvenile literature; reading and reviewing books with special emphasis upon the principles of evaluating children's literature. Material fee, \$1.00. Daily except Saturday, 7.40 a.m.

## MATHEMATICS

- 12 *Plane Analytic Geometry* (3) Woolard  
Daily except Saturday, 6.10 p.m.
- 19 *Differential Calculus* (3) Woolard  
Daily except Saturday, 5.10 p.m.
- 20 *Integral Calculus* (3) Johnston  
Daily except Saturday, 6.10 p.m.
- 124 *Advanced Algebra* (3) Johnston  
Daily except Saturday, 5.10 p.m.



- 275 *Theory of the Potential* (3) Woolard  
Daily except Saturday, 6.10 p.m.

PHYSICS

- 12 *Electricity and Magnetism* (3) Cheney  
Prerequisite: Physics 11 or high-school Physics. Material fee.  
\$4.50. Monday, Wednesday, and Friday, 6.10 p.m., and Tuesday and Thursday, 6.30 to 8.30 p.m.
- 13 *Dynamics, Sound, and Light* (3) Seeger  
Prerequisite: Physics 11 or high-school Physics. Material fee.  
\$4.50. Monday, Wednesday, and Friday, 10.40 a.m., and Tuesday and Thursday, 9.40 to 11.40 a.m.
- \*14 *Modern Physical Phenomena* (2) Cheney  
Molecular and atomic Physics. Prerequisites: Physics 12 and 13. If credit has been obtained for one of these prerequisite courses, the other may be taken concurrently. Daily except Saturday, 5.10 p.m.

POLITICAL SCIENCE

- 9 *Government of the United States* (3) Hill  
Daily except Saturday, 6.10 p.m.
- 10 *State Government* (3) West  
Daily except Saturday, 5.10 p.m.
- \*111 *Comparative European Governments* (2) Tillema  
The governments of England, Germany, and France. Daily except Saturday, 8.40 a.m.
- 127 *Commercial and Maritime Law* (3) Tillema  
Contracts, agency, liens, and bailments. Daily except Saturday, 7.40 a.m.
- \*172 *International Organization* (2) Johnstone  
Emphasis on the League of Nations. Daily except Saturday, 9.40 a.m.
- 181 *International Law* (3) Hill  
Daily except Saturday, 5.10 p.m.
- 192 *Politics and Governments in the Far East* (3) Johnstone  
Daily except Saturday, 6.10 p.m.

- \*197-98 *Seminar-Conference: Hispanic American Affairs* (2-2)  
 Wilgus and Visiting Staff  
 Group study confined to the Caribbean. Daily except Saturday,  
 9.40 to 11.30 a.m.
- \*209 *Seminar* (2) West  
 Hours to be arranged.

## PSYCHOLOGY

- 1 *General Psychology* (3) Hubbard  
 The fundamental principles underlying human behavior. Daily  
 except Saturday, 7.10 p.m.
- 2 *Applied Psychology* (3) Hunt  
 The application of Psychology in business, industry, law,  
 medicine, and education. Daily except Saturday, 7.40 a.m.
- 115 *Physiological Psychology* (3) Moss  
 The biological foundations of behavior, both normal and ab-  
 normal, with clinics. Daily except Saturday, 6.10 p.m.
- \*119 *Psychological Tests* (2) Hubbard  
 The more common uses of psychological tests in business, indus-  
 try, law, medicine, and education. Material fee, \$3.00. Daily  
 except Saturday, 10.40 a.m.
- \*131 *Statistics in Psychology* (2) Hunt  
 Daily except Saturday, 9.40 a.m.
- 211 *Seminar* (3) Moss  
 Tuesday and Thursday, 8.10 p.m.

## PUBLIC SPEAKING

- 1 *Principles of Effective Speaking* (3) Yeager  
 Speech composition; delivery; short informative, persuasive,  
 and entertaining speeches on selected topics. Daily except  
 Saturday, 7.10 p.m.
- 4 *Business and Professional Speaking* (3) Yeager  
 Oral reports, sales talks, inspirational talks, discussions of  
 policy, personal conferences. Prerequisite: Public Speaking 1.  
 Daily except Saturday, 6.10 p.m.
- \*105 *American Orators* (2) Yeager  
 A study of the style and methods of great American orators,  
 from the Revolution to the present day. Daily except Saturday,  
 10.40 a.m.

ROMANCE LANGUAGES

FRENCH

- 1-2 *First-Year French* (3-3) Thénau  
Grammar, translation, pronunciation. Daily except Saturday,  
6.10 to 8.00 p.m.
- 5-6 *Second-Year French* (3-3) Protzman  
Reading of modern French; grammar review; oral practice.  
Daily except Saturday, 5.10 to 7.00 p.m.

SPANISH

- 1-2 *First-Year Spanish* (3-3) Deibert  
Grammar, translation, pronunciation. Daily except Saturday,  
6.10 to 8.00 p.m.
- 5-6 *Second-Year Spanish* (3-3) Doyle  
Reading of modern Spanish; grammar review; oral practice.  
Daily except Saturday, 5.10 to 7.00 p.m.

SOCIOLOGY

- 28 *Social Organization* (3) Willard  
Social structure; the group, folkways, institutions, communities,  
social classes, personality, and processes of social interaction  
and structural change. Daily except Saturday, 6.10 p.m.
- 72 *Survey of Social Problems* (3) Willard  
Problems of social organization and group relationship; race,  
immigration, industrial relations, war and crime. Daily except  
Saturday, 7.10 p.m.
- \*111 *Educational Sociology* (2) Willard  
Institutionalized education and community life; education  
as a factor in control of social problems, social change, and  
national policy. Daily except Saturday, 10.40 a.m.

ZOOLOGY

- 1-2 *Introduction to Zoology* (3-3) Bartsch, McClosky, Parker  
Lectures and laboratory work introductory to zoological char-  
acters, the general principles of biology and evolution, and  
comparative morphology. Zoology 1, June 12 to July 12;  
Zoology 2, July 13 to August 11. Material fee, \$6.00 a semester;  
breakage deposit, \$10.00. Daily except Saturday, 5.10 to  
6.00 p.m. and 6.10 to 9.00 p.m.

\*3 *Comparative Mammalian Anatomy* (3)

Bowman

Prerequisite: Zoology 1-2 or the equivalent. Material fee, \$6.00. Daily except Saturday, 5.10 p.m.; laboratory to be announced.

\*5 *Field Zoology* (4)

Bartsch

A field course covering the range of habitat afforded by our own locality, intended to acquaint the student with living animals in their natural surroundings. Problems in ecology. Daily except Saturday, 7.00 to 9.00 a.m., and Saturday, 1.00 to 6.00 p.m.

253 *Research*

Bartsch

Credits and hours to be arranged.



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SUMMARIES OF DOCTORAL THESES  
1932-34





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WASHINGTON  
UNIVERSITY  
BULLETIN

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SUMMARIES OF DOCTORAL THESES  
1932-34

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WASHINGTON, D. C.

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THE  
HISTORICAL  
GEOGRAPHY  
OF  
THE  
MEDITERRANEAN  
SEA

BY  
J. H. MURRAY

WITH  
A  
PREFACE  
BY  
THE  
AUTHOR

### PREFATORY NOTE

This number of the University Bulletin contains summaries of the theses which have been accepted during 1932-34, inclusive, as part satisfaction of the requirements for the degree of Doctor of Philosophy at The George Washington University. The original theses are filed in the University Library, where they may be consulted by students interested in examining the complete texts.





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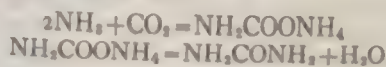
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# A NOTE ON SOME CONDITIONS AFFECTING THE CONVERSION OF AMMONIUM CARBAMATE INTO UREA

By KENNETH GROSS CLARK<sup>1</sup>

Krase, Gaddy, and Clark<sup>2</sup> have developed a continuous process for the synthesis of urea. In this process liquid ammonia and liquid carbon dioxide are introduced separately but in a fixed ratio into the base of an autoclave, where reaction to ammonium carbamate and partial conversion of the latter to urea take place at temperatures between 165 and 170° C. and at pressures in the neighborhood of 110 atmospheres. The reactions involved in this synthesis of urea are:



The majority of previous determinations of the equilibrium yields of urea have been made at low weight-volume ratios, ranging from 0.1 to 0.5 grams per cubic centimeter, and with one exception<sup>3</sup> have not been extended above 150° C. For the further development of this process, it is essential to know the conditions most favorable for the transformation of ammonium carbamate into urea.

It is the object of this thesis to study the effect of (1) temperature over the range 135–200° C. at higher weight-volume ratios than formerly used, and (2) the effect of the weight-volume ratio at 170° C. on the equilibrium yields of urea obtainable from ammonium carbamate. The new experiments reported fall into two series. The first series comprises thirty-seven experiments in which equilibrium was approached from both sides of the reaction; the second series comprises twenty-four experiments in which equilibrium was approached only from the urea-water side.

The first series of experiments was carried out in Rezistal No. 4 reactors at a weight-volume ratio of approximately 0.9 grams per cubic centimeter. These reactors had an interior volume of 100 and 105 cubic centimeters respectively.

The second series of experiments was carried out at a weight-volume ratio of 1.0 gram per cubic centimeter in Pyrex glass tubes ranging in volume from 3.5 to 4.2 cubic centimeters. These Pyrex tubes were sealed

<sup>1</sup> B.S. in Ch.E. 1920, Ch.E. 1923, University of Pittsburgh; M.S. in Ch. 1927, The George Washington University; Ph.D. conferred February 22, 1932.

<sup>2</sup> Krase, Gaddy, and Clark, *J. Ind. Eng. Chem.*, 22, 289 (1930).

<sup>3</sup> Yakovkin, *J. Applied Chemistry (Russian Physical Chemical Society)*, 1, 69 (1928).



after loading, placed singly in the Rezistal No. 4 reactors used in the first series of experiments, and surrounded by a mixture of urea and water in molecular proportions and at a loading density between 0.9 and 1.0 gram per cubic centimeter in order to equalize the pressure within and outside the glass tubes. After the reactors had been charged with the predetermined quantities of ammonium carbamate or of urea and water and had been securely closed to prevent loss of material by leakage, they were immersed in a thermo-regulated oil bath capable of being maintained within  $\pm 0.5^\circ \text{C}$ . of the desired temperature. The period of heating was in most cases twenty-four hours, although at a few of the higher temperatures this time was shortened to seventeen hours. These heating periods apparently were sufficient for the establishment of equilibrium under the temperature conditions of the experiments. At the end of the period of equilibration, the reactors were removed from the oil bath, freed of oil, and immediately immersed in cold water to chill the system quickly to temperatures at which the reaction rate is known to be inappreciable. It is assumed that because of this rapid cooling the conversion found actually corresponds to the composition existing at the temperature of equilibration.

When the reactors had returned to room temperature, the equilibrated mixture was removed from them and analyzed for total combined nitrogen and for nitrogen combined as ammonia. The urea nitrogen was obtained by difference. The ratio of the urea nitrogen to the total nitrogen was used as a measure of the conversion of the ammonium carbamate into urea.

The experiments reported show increasing conversion of ammonium carbamate into urea with temperature up to an apparent maximum at about  $190^\circ \text{C}$ . The corrosive action of this system toward ordinary materials of construction is considerable at  $150$ – $160^\circ \text{C}$ . and increases rapidly at higher temperatures. The lower yield of urea obtained at  $200^\circ \text{C}$ . may be attributed to the complications introduced by more active corrosion of the reactor and catalytic cracking of ammonia to nitrogen and hydrogen at this temperature, rather than to an actual decrease in the equilibrium yield from  $190^\circ \text{C}$ . In every case the yields of urea obtained at a given temperature are in excess of those previously reported. The following tabular comparison illustrates this point over a temperature range of  $135$ – $150^\circ \text{C}$ . (see p. 3).

The work of Yakovkin<sup>1</sup> over the range  $150$ – $185^\circ \text{C}$ . is omitted from this comparison, since his procedure of allowing the equilibrated mixture to cool in place in the heating bath precluded any exact knowledge of the temperature corresponding to the yield of urea found.

At  $170^\circ \text{C}$ . the yields of urea obtained at weight-volume ratios of 0.2 and 1.0 grams per cubic centimeter were 34.5 percent and 49.0 percent respectively. This is a 42.0 percent increase in conversion for a 400 percent increase in the weight-volume ratio.

<sup>1</sup> *Op. cit.*



Temperature C.	Weight- volume ratio	Container	Percent yield of urea	Observers
135	0.65	Tin	40.64	Fichter and Becker <sup>1</sup>
135	0.90	Rezistal No. 4	42.2	Present work
135	1.00	Pyrex	43.7	Present work
145	0.66	Glass	43.3	Matignon and Frejacques <sup>2</sup>
145	0.90	Rezistal No. 4	43.7	Present work
150	1.00	Pyrex	45.0	Present work
150	0.38	Pyrex	41.9	Present work
150	0.49	Glass	44.6	Matignon and Frejacques
150	0.92	Rezistal No. 4	45.3	Present work
150	1.00	Pyrex	45.3	Present work

A table is presented in the appendix of the available data of other investigators on the equilibrium yield of urea in the system urea-water-ammonium carbamate.

<sup>1</sup> Fichter and Becker, Ber., 44, 3473 (1911).

<sup>2</sup> Matignon and Frejacques, Compt. rend., 171, 1003 (1920), Bull. soc. chim., 37, 394 (1922).

## THE COOPERATIVE MOVEMENT IN INDIA: ITS RELATION TO A SOUND NATIONAL ECONOMY

By ELEANOR MARGARET HOUGH<sup>1</sup>

The eyes of the world are upon India today. The problems of her position in the British Empire and of internal politics press for solution. Even more vital to the country's well-being, however, is the strengthening of existing weaknesses in the economic structure which must hamper and obstruct her development whatever her political status.

The Indian Peninsula, with an area less than two thirds that of the United States, contains—one hesitates to say "supports"—more than 350,000,000, or almost three times as many people. Rich as India is in natural resources and in man power, it obviously is seriously overpopulated for its present stage of economic development, as witness the large proportion of the population who, impoverished and in debt, are living dangerously near the limit of subsistence. While, no doubt, native social customs have been prominent among the many causes of this condition, certain other factors are perhaps no less important.

Almost 90 percent of the population is rural, living in the small villages which are typical of the country. The traditional Indian village was typically almost self-sufficing, as many are still, with considerable division of labor and remuneration in mutual service. Over 70 percent of the people live by agriculture; industry supports 10 percent; and trade and transport an additional 8 percent; while the remainder are engaged in the administration and protection of the country, domestic, miscellaneous, and unproductive occupations.

Besides overpopulation, the chief factors conditioning a sound national economy are this major dependence upon a single industry which depends in turn on a variable climate; antiquated methods of cultivation; an inadequate wage scale; insufficient transportation facilities; defective marketing methods; the wide-spread illiteracy and general poverty, reflected in a low standard of living and much preventable disease; the burden of indebtedness for a large part of the population; and inadequate credit facilities. These are not isolated phenomena, but affect each other mutually.

This is the situation the Indian cooperative movement was launched to meet. It owed its inception to the Government's recognition of the need of the people, and especially the cultivators, for controlled credit at more moderate rates than were available from money-lenders, whose

<sup>1</sup> A.B. 1914, Wellesley College; A.M. 1928, The George Washington University; Ph.D. conferred February 22, 1932.

usurious practices contribute to the misery of their clients. The Land Improvement and Agriculturists' Loans Acts of 1883 and 1884 having failed to meet the situation, the Cooperative Credit Societies Act of 1904 provided for the registering of cooperative societies for the encouragement of thrift and self-help among ten or more members residing in the same village or town or belonging to the same class or caste. The administration of the act was entrusted to an official registrar in each Province. Liability of rural society members was unlimited, of urban society members either limited or unlimited. Dividends were forbidden in rural societies and strictly regulated in urban, and the interest of any one member in a society's share capital was strictly limited. Loans could be made only to members and on personal or real security.

The chief defects of the act of 1904, its restriction to credit as a purpose of cooperative societies and its failure to provide a legal status for the central agencies, banks, and unions, which were coming gradually into existence to finance and supervise the primary credit societies, were remedied in the Cooperative Societies Act of 1912. This permitted registration of any society having as its object the promotion of the economic interests of its members in accordance with cooperative principles, or a society established with the object of facilitating the operations of such a society. Unlimited liability was retained for rural credit societies, but limited liability was prescribed for central societies. Considerable discretion was allowed the local governments charged with the administration of the act in making rules for the societies, such rules having the same force in the respective Provinces as the act itself.

Since cooperation was transferred wholly to provincial control under the diarchy set up by the Government of India Act of 1919, two Provinces, Bombay and Burma, have passed their own cooperative acts, in 1925 and 1927, respectively. These follow in most respects the national act which is in force everywhere else in British India, but the Bombay act widens the scope of the movement, substituting for "agriculturists, artisans and persons of limited means" as the beneficiaries of the act, "agriculturists and other persons with common economic needs".

Most of the larger Indian States and some of the smaller ones have adapted the cooperative legislation of British India to their specific needs, and the data of nine of these locally autonomous States are included in the annual statistical statements on the cooperative movement issued by the Department of Commercial Intelligence and Statistics.

The movement is still predominantly, as it has been from the beginning, a credit movement; still, as at first, chiefly for the benefit of the rural population, although the urban societies, both in number and financial strength, occupy a position of far greater relative importance than the percentage of urban population would warrant. They are also in a more thriving condition in most of the country than the agricultural societies.



The present situation is the more serious because the grave defects which have developed in many sections of the country concern chiefly agricultural credit societies and therefore are of very wide import.

On the face of it, the movement has shown gratifyingly steady progress. The growth in number of societies, in total membership, and in working capital has proceeded quite steadily for the country as a whole, regardless of set-backs experienced in some areas, but the large number of liquidations in recent years and the alarming increase in overdues show how precarious is the footing of cooperation in some Provinces. It is tottering in Burma, Bhopal, and the United Provinces, and it is in none too satisfactory a condition in the Central Provinces and Berar and elsewhere.

The cooperative movement stands or falls by the soundness of the primary societies, which are not only the *raison d'être* of the central and provincial banks, unions, and institutes, but the foundation on which the entire superstructure rests.

At the end of 1929-30, credit societies represented almost 85 percent of the 102,041 primary societies. The chief other lines of cooperative activity include marketing, purchasing, industrial, labor-contract, insurance, and housing societies, societies for the consolidation of land holdings and for irrigation promotion and land reclamation, and better-living and better-farming societies.

No other noncredit line of cooperation, with the possible exception of consolidation of land holdings, seems to hold greater promise for the agricultural population than cooperative marketing. Some official regulation of markets, however, the standardization of weights and measures, and the establishment of licensed warehouses are almost essential preliminaries to any very large-scale marketing developments. Outstanding cooperative marketing organizations today include the cotton-sale societies in Bombay Presidency and the Ganja Cultivators' Cooperative Society, the central paddy-sale society, and the Calcutta Milk Union in Bengal. Perhaps strong central sales organizations such as are advocated by the All-India Cooperative Institutes' Association are the next step.

The distribution phase of the movement, known as consumer cooperation, has been disappointing. There is some purchasing for members by societies of other types, but with a few exceptions like the Triplicane Stores in Madras, established in 1905 on Rochdale lines, the Matunga South Indian Cooperative Consumers' Society and the Bombay purchase-and-sale unions, a few railway stores, and student-stores societies in many sections, the record is not encouraging. Purchases by primary societies on indent, or members' specific orders, seems the best line for the present, with conservatism in the establishment of separate cooperative societies for distribution.

Industrial societies also have not been very successful. Even with their help the cottage industries cannot hope to compete indefinitely with



the organized industries. The chief functions of artisans' societies are the purchase of supplies and the sale of members' products, but some attempt is made to give technical instruction to weavers and others, through the cooperation of technical departments of the provincial governments.

The wide-spread uneconomic fragmentation of holdings under the Hindu and Moslem inheritance laws is combated in the Punjab and elsewhere by societies for the consolidation of holdings, which have been remarkably successful.

Irrigation-promotion societies are important in Bengal, and land-reclamation societies in Madras, while the Punjab has many better-living societies, working chiefly for reduction of unnecessary social expenditures, and arbitration societies which have cut down appreciably the amount of litigation. Better-farming societies also are found in several Provinces. Labor-contract societies are promising if proper cooperation is forthcoming from local boards, but this has not been the case thus far.

Cattle-insurance societies, once the only type of cooperative insurance in India, are fast dying out, but life insurance on a cooperative basis is a new and promising development, especially in Bengal and Bombay.

Housing societies are a bright spot in the Indian cooperative picture, and the wretched housing conditions of the majority of industrial workers make the multiplication of such societies of great importance. Though the development thus far is relatively small, cooperative housing projects have been very successful in some Provinces.

Among external factors which have handicapped the development of the Indian cooperative movement, the complexity of the problem undoubtedly takes first rank. Credit at reasonable rates for current needs will do the agriculturist no great good as long as he is carrying the crushing burden of indebtedness, but relieving him of the latter will not permanently benefit him unless his income can be raised or his expenditure reduced. The former involves consolidation of his holdings, improvement of his land, by irrigation or otherwise, the amending of his methods of cultivation, encouraging the pursuit of supplementary occupations, or enabling more profitable disposal of his products. The reduction of expenditure involves sound systems of land holding and land revenue assessment, the availability of required supplies as well as credit at reasonable rates, the reduction of unnecessary expenditure on social ceremonies by a reform in public opinion, the encouragement of thrift in the form of savings accounts or insurance, and especially education, which not only will facilitate most of the foregoing objects but will help to safeguard the peasant against exploitation.

The difficulties of rehabilitating the artisan are only less complex, for he shares all these needs of the cultivator, except those relating specifically to the soil, and has in addition the problem of decent housing at reasonable rates. The industrial and agricultural laborers also want relief from

indebtedness, controlled current credit at moderate interest, cheap supplies, reduced social expenditures, and education; but their most crying need is for a fair remuneration for their labor. Unfortunately, an increase in the rewards of labor is largely outside the scope of the co-operative movement and must await the better organization of workers and the general economic advance of the country, except for the little the labor-contract societies are able to accomplish for their members.

Sporadic attacks are being made in different Provinces and States on all the aspects of the gigantic problem, but the relative ineffectiveness of the prevalent scattering of effort is coming to be recognized. The best hope of doing lasting good to the beneficiaries of the movement lies in visualizing their problem as a whole and directing the cooperative attack simultaneously on as many fronts as possible.

Other external factors handicapping the advance of the movement are the wide-spread illiteracy and lack of business experience, shortage of funds for the cooperative departments, and the dependence of the major branch of the movement upon climatic conditions.

Chief, perhaps, among the numerous inherent weaknesses in the system as it has been developed, is the lack of spontaneity which has laid the Indian movement open to the accusation of being less a movement than a governmental policy. There has been considerable agitation for the deofficialization of the movement, the delegating of all the registrar's powers except his strictly statutory functions, to nonofficial organizations. Ultimately desirable as this is, the premature withdrawal of Government control is fraught with danger to the movement, as demonstrated in Burma and Madras.

Under present circumstances, the strengthening of the staff, official as well as nonofficial, is an urgent need in most Provinces, qualitatively as much as quantitatively. The lack of proper education and training of office-bearers and of cooperators generally has been a major weakness of the movement. The commendable zeal with which many official and nonofficial workers threw themselves into the organization of cooperative societies unfortunately was not matched by an equal enthusiasm for the more tedious work of educating prospects and members in the principles on which cooperation rests.

Other prominent shortcomings are the inadequate provision for long-term credit, the slow repayment of loans, paper adjustments, inadequacy of the finance available to members, and the delays in granting loans, which could be largely obviated by a system of cash credits by central banks to primary societies.

The movement cannot clear itself wholly of the charge of failure to serve the neediest strata. Cooperation cannot solve the problem of the hopelessly insolvent, though cooperative societies are assigned a major role in the vigorous policy of debt conciliation urged on provincial governments

by the Central Banking Enquiry Committee of 1931. It is still questionable, too, how far the movement can meet the need in areas liable to frequent crop failure.

The idea of cooperative endeavor is generally accepted today, but for the movement to render its greatest potential service it needs enthusiastic support from more educated Indians, the natural leaders of the illiterate masses, as honorary organizers and friendly counselors of neighboring societies.

India's economic and social malady is deep-seated and of long standing. Her recovery must be correspondingly gradual and slow. But long before economic health can be fully attained, some of the most painful symptoms can be relieved. There are evils against which cooperation has demonstrated its effectiveness in some measure and indicated its still greater possibilities for the future. It has helped to relieve poverty by reducing members' indebtedness, lowering interest rates, consolidating holdings, increasing productiveness and thrift, lowering the cost of necessities to members, providing for the disposal of their products, and discouraging unnecessary social expenditures; it has done something to raise the standard of living; it has made at least a beginning in reducing the appalling amount of illiteracy; and it has increased the country's banking facilities.

In all these directions cooperation has made more or less progress, although so far it has affected only the fringe of the situation for the country as a whole.

Cooperation in India has not worked the miracle its original sponsors hoped for, but it has taken its place, important now and destined beyond a doubt to become far more so, among the constructive forces working for the economic and social regeneration of India and the establishment of a sound national economy. Its furtherance merits the support of every friend of the Indian people.



## THE PATHOLOGY OF INTRACRANIAL HEMORRHAGE IN THE NEW-BORN

By LEON STUART GORDON<sup>1</sup>

This investigation was begun in the endeavor to ascertain the pathology exhibited at autopsy of infants born dead or dying soon after birth. Interest was stimulated by the report of Dr. Dorothy Reed Mendenhall to the Children's Bureau of the Labor Department that the District of Columbia suffered a death rate for infants under one day of age, of 10.2 per 1,000 births. This figure was higher than the average rate for these infants in the United States birth-registration area, namely, 15 per 1,000 births.

Approximately 60 percent of the total births in the District during the three-year period investigated and reported occurred in hospitals, and very few cities in the United States show so high a hospitalization of maternity cases.

In this investigative study we performed post-mortem examinations on seventy-four babies from the Gallinger Municipal Hospital, the Sibley Memorial Hospital, The George Washington University Hospital, and the Out-Patient Obstetrical Service of The George Washington University School of Medicine. Our cases, in a fair way, represent a uniform cross section of the population of the District of Columbia.

Very early in our studies it was learned that the one great and persistent cause of stillbirth and neo-natal death was intracranial hemorrhage.

Many interesting problems presented themselves during this investigation and have been scheduled for further research, but for the purpose of thoroughness, only the problem of pathology is presented here.

While the first reports were made on this phase of infant pathology over a hundred years ago by Billard, Cruveilhier, and Little, no outstanding contributions were made until 1910, when Beneke advocated a unique and improved manner of post-mortem examination of the heads of these infants.

Beneke's technic, which is essentially the one we found most practicable, consists of creating a window in each side of the skull, avoiding the large venous sinuses, the cutting of which would create an artificial hemorrhage. This method permits inspection of the intracranial dural membranes for damage done by the compressive forces of childbirth without the danger of producing autopsy trauma.

It was further found that by this technic of opening the head, experi-

<sup>1</sup> M.D. 1928, A.B. 1929, A.M. 1930, The George Washington University; Ph.D. conferred June 15, 1932.



mental compressions could be performed with facility, allowing us to simulate the probable cranial mechanics that might occur during actual childbirth.

### TYPES OF LESIONS ENCOUNTERED

It was found that intracranial hemorrhage in new-born infants falls into one of the three following types: (1) subdural hemorrhage due to vein rupture, together with tears of tentorium cerebelli or falx cerebri, or both; (2) subarachnoidal or intrapial hemorrhage of capillary origin (rhesis or diapedesis), attendant with a high degree of subarachnoidal edema, and frequently accompanied by hemorrhages into the lateral ventricles; (3) combined subdural hemorrhage with septal tears and the subarachnoidal hemorrhage-edema.

Birth weight stood out saliently as the deciding factor of the character of the hemorrhage to be expected.

The more fully developed or mature babies (birth weight over  $5\frac{1}{2}$  pounds or 2,500 grams), because of their size, suffer compressive birth trauma and invariably showed in the post-mortem examination, when cerebral hemorrhage was present, the subdural type of hemorrhage with septal tears.

Underdeveloped or immature infants (birth weight under  $5\frac{1}{2}$  pounds or 2,500 grams) were small enough to slip through the birth canal without much resistance and compression, but suffered capillary hemorrhages of the subarachnoidal type.

Babies whose birth weight bordered between the mature and immature size and thus were large enough to meet with birth-canal compression, and yet with a tender vascular apparatus (vasolabile), suffered both subdural and subarachnoidal hemorrhages.

Infants bearing the stigmata of congenital syphilis also showed a tendency toward the combined varieties of hemorrhage.

### THE SUBDURAL HEMORRHAGE WITH SEPTAL TEARS (MATURE INFANT)

By clinical and histological observation it was found that a birth weight of at least  $5\frac{1}{2}$  pounds (2,500 grams) was the nearest approach toward the full development of body structures requisite for a normal extra-uterine life. Because of their sheer size these infants suffer the action of compressive force upon their heads during passage through the birth canal.

This force is the resultant between the powers of labor and the resistance of the maternal passages. Eardley Holland termed this state of stress upon the foetal head during labor "cranial stress". This stress may be regarded as consisting of two elements. First, there is a general compression of the whole head. Secondly, simple longitudinal compression occurs by reason of the opposite forces acting at the ends of the long diameter of engagement of the head in the pelvis. It is this simple

longitudinal stress that plays the greatest part in affecting the cranium and intracranial contents, and it is chiefly responsible for alteration in the shape of the head and stretching of the dura mater.

The immediate effect of the cranial stress is alteration in the shape of the head, or molding; this necessarily entails changes in the position, absolute and relative, and curvature of the cranial bones. To protect against dangerous degrees of alteration in the shape of the head, the intracranial membranes or septa (which are reduplications of the dura mater) oppose the changes in the shape of the head by acting as guy ropes or braces to the cranial bones. Movements of the bones are resisted by the tension of the septa, just as the swaying of a mast is resisted by the tension of its stays.

It is obvious that if the movements and bending of the bones are too great, the septa tear or split. With loss of continuity of the protective limiting dural septa, still further displacement and bending of the cranial bones are permitted, which bring about dangerous disturbances in the relationship of the intracranial contents.

Molding of the head is, up to a point, a very beneficial process, without which many a foetus could not be born; but excessive molding is dangerous and may cause foetal death by producing intracranial disturbances, the most evident of which is cerebral hemorrhage from overstretching and rupture of blood vessels, usually the veins intimately related to the dural septa.

The cranial stress incurred in the molding process creates a strain in the resisting septa. The septa become stretched and tense, and altered in position and direction. Overstretching results in tearing or splitting, most commonly occurring in the tentorium cerebelli at its junction with the falx cerebri. Finally, these changes in the septa are transmitted to the vein of Galen, whose fixed point is at the apex of the tentorium cerebelli. This vein and its immediate tributaries become stretched, kinked, and engorged, so that either itself or some of the tributaries are ruptured, with consequent subdural cerebral hemorrhage of greater or lesser extent.

It is obviously impossible during the course of labor in any given case to analyze the exact nature of cranial stress, to measure accurately its intensity, or to predict its effects. The only means of estimating the intensity of cranial stress is to observe the effects after birth, those cases coming to autopsy representing the exaggerated phases.

#### THE SUBARACHNOIDAL HEMORRHAGE-EDEMA (IMMATURE INFANT)

An immature infant is one whose weight at birth is less than 5  $\frac{1}{2}$  pounds (2,500 grams), irrespective of whether it is born before term, at term, or after term. The word "immature" implies that the infant is not completely developed and is not prepared for a normal, independent extra-uterine life. It means that if it had been possible for the infant to remain longer in the

uterine cavity, it would have become sufficiently strong and its organs sufficiently developed for normal function. It is the usual case that the larger number of the immature infants so classified will also be premature.

Because of their small size, it would seem that these babies would be able to slip through the birth canal with comparative ease and freedom from birth-trauma evidences (intracranial hemorrhages). However, we have found that immature infants are highly predisposed to subarachnoidal or intrapial hemorrhages, but these are rarely accompanied by septal tears. Frequently hemorrhage into the lateral ventricles is seen, undoubtedly of capillary origin from the choroid plexus.

The factor which allows the immature foetus to escape marked stretching and tearing of its dural septa, with attendant vein rupture and subdural hemorrhage, lies in the small size of the foetal head. Very much less resistance is offered to the head by the maternal passages and less compression by the maternal powers, and less operative intervention is indicated for delivery. Too, the skull plates are soft and pliable, and the dura in the immature infant is more closely adherent to the skull than in fully developed infants, so that it can be neither folded nor stretched very much.

Though it is not usual to find septal tears of these immature infants coming to autopsy, it is decidedly common to find cerebral hemorrhage, together with edema of subarachnoidal character. The further one goes into this particular phase of neo-natal pathology, the more one believes that the smaller the birth weight of the immature infant, the more frequent the occurrence of intracranial hemorrhage. There is a close relationship between the degree of development of the immature infant and the frequency of occurrence of cerebral hemorrhage.

This hemorrhage is quite characteristic in that it appears as a thick, jelly-like layer of blood and fluid on the cortex of the brain. Large macroscopic hemorrhages of the brain substance are not seen. A favorite location for hemorrhage of this character is on the convex surface of the brain along the longitudinal sinus. The intensity varies from a drop of blood to a mass that looks like a red cap covering the cortex of the brain. The latter forms are especially common in the immature infant, and these are frequently accompanied by blood-filled lateral ventricles.

Another area of predilection is the under surface of the cerebellum. In such cases there is also, frequently, a condition of hematomyelia, usually epidural.

The blood vessels of these immature infants are readily torn and injured; their capillaries exhibit abnormal friability and permeability. We believe that we are dealing with a "vasolabile" individual, i.e., an infant in whom a small amount of trauma will produce hemorrhage.

To mention a still further idea of the cause of these characteristic subarachnoidal hemorrhages of the immature, it is thought that the incom-



plete architectural development of the capillary system makes for a capillary bed of insufficient strength to withstand the trauma associated with uterine contractions and passage through the birth canal, and that, therefore, rupture of these vessels, with consequent hemorrhage, follows

#### THE SUBDURAL HEMORRHAGE WITH SEPTAL TEARS COMBINED WITH SUBARACHNOIDAL HEMORRHAGE-EDEMA (COMBINED TYPE)

The necropsy findings of a jelly-like hemorrhage-edema cap over the cerebral hemispheres, together with a subdural hemorrhage and septal tears, occurs in two types of infants. One group includes those babies whose birth weight falls between five and six pounds (2,000 to 3,000 grams), and the other category includes those with stigmata of congenital syphilis (with no regard to birth weight).

The explanation we offer for the first group lies in their size offering some resistance to birth and thus the creation of stress upon the foetal head by the action of the compressive forces attending birth. The lack of sufficient maturity of the connective-tissue fibers comprising the dural septa permits easy tearing and splitting, and thus the failure of absorption of strain by the "guy-rope" septa results in transmission of the strain to the usually stretched, kinked, and engorged vein of Galen. The consequent rupture of this vein or its tributaries results in the subdural hemorrhage. The lack of sufficient maturity of the vascular apparatus of such a low-birth-weight infant is indicated in the subarachnoidal hemorrhage-edema from abnormally fragile and abnormally permeable capillaries (vasolability).

In congenital syphilis the marked retardation of development of the vascular system and of the dural connective tissues which occurs, together with the toxic friability caused by the spirochetal toxic elaboration, accounts, undoubtedly, for the septal tears with subdural hemorrhage and the subarachnoidal hemorrhage-edema in the process of birth.

#### CONCLUSIONS

1. Intracranial hemorrhage is the greatest and most persistent cause of stillbirth and neo-natal death, occurring 123 times in our series of 150 infant autopsies.
2. Beneke's method of post-mortem technic for examination of the foetal head allows for a true and reliable evaluation of the pathology of the intracranial contents.
3. Newly born suffer intracranial hemorrhages that may be classified in three types. These types strongly follow the birth weight of the infant.
4. Mature, fully developed infants tend to exhibit subdural venous hemorrhages, accompanied by dural septal tears or splits, as the result of cranial stress.



5. Immature infants, being underdeveloped, are "vasolabile" and usually present a capillary subarachnoidal hemorrhage-edema, frequently with hemorrhage into the lateral ventricles, but without septal tears or splits.

6. Infants classified as "border-line" maturity cases present the combined type of intracranial hemorrhage, that is, the cranial stress lesions of subdural hemorrhage (venous origin) with septal tears, and the subarachnoidal hemorrhage-edema of vasolabile individuals.

7. Congenital syphilitic infants frequently present the "combined" type of intracranial hemorrhage.

8. The clearer basic conception of the pathology of intracranial hemorrhage in the new-born paves the way for further investigative study along collateral lines in this same field.

## THE LARVA OF THE CYCLOPHYLID CESTODES OF BIRDS

By MYRNA FRANCES JONES<sup>1</sup>

The information now available concerning the larva of the cyclophyllid cestodes of birds is presented in brief form. Cysticeroids of four species of cestodes are described for the first time. Additional information, especially in regard to developmental forms, is given in regard to the cysticeroids of a fifth species which was described briefly in a previous publication. A study of specimens, found by the writer, supplements in some details the descriptions of the cysticeroids of two other species as originally given by other workers.

Developmental stages as well as completely formed cysticeroids are described where such forms are known. Original descriptions are based for the most part on specimens obtained by feeding segments of adult tapeworms, obtained from birds, to suitable intermediate hosts. A few naturally infested hosts have been found, and cysticeroids obtained from such hosts are so designated.

Descriptions which are available in the literature of the larva of avian cestodes are included. With very few exceptions, the cysticeroids for which the adult forms are unknown are not given, since such forms may or may not represent larvae of avian cestodes.

The first section of the paper presents in brief form a historical resume of the subject. With few exceptions, the information on the small larva of the cestodes under consideration dates from about the middle of the nineteenth century. Thus, knowledge of these larvae has been obtained in a comparatively limited period of time. It is noted that an interest in the intermediate host, cestode larvae being found incidentally, a scientific curiosity as to the development of cestodes, and an economic interest in the primary host have been the chief stimuli in the discovery and study of the larva of the cestodes of birds. It appears that with few exceptions the cysticeroids which are best known and the life histories which are most completely understood represent repeated attacks on the subject and repeated discoveries of cysticeroids in various intermediate hosts.

The systematic section follows the historical resume. In this section the larvae are grouped according to the classification of adult specimens, that is, according to cestode families, alphabetically arranged. In the discussion of each species the following items are included: synonyms known for the adult form; complete lists of primary and of intermediate hosts;

<sup>1</sup> A.B. 1924, Doane College; M.S. 1926, University of Illinois; Ph.D. conferred June 15, 1932.

the location of the cestode in the primary and in the intermediate host; the general geographical distribution of the adult and in many cases the distribution of the larval material studied. A brief historical outline of the work on the species under consideration then follows. The basis for the specific determination of the larva is clearly indicated in each case. Where available, data on experimental feedings are given in very brief form. Additional information, such as number of larvae found in a host and the percentage of hosts infected, is given in many cases. Where the information is available, there is given for each species a description of the onchosphere and the embryonal hooks, descriptions of developmental forms, and as complete a description as possible of the completely formed larva. A description of the scolex of the adult is added for quick comparison with the scolex of the larva.

Forty species of cestodes of birds are discussed. The larva is described and related to the adult form in thirty-four cases. The other species mentioned involve cysticercoids incompletely described, or are species for which no cysticercoids have been described although intermediate hosts have been indicated by feeding experiments. The specific determination of certain cysticercoids, in all about fourteen, rests entirely upon a similarity of the scolex of the larva to the scolex of an adult species. In the identification of other cysticercoids, twenty in all, a comparison of larval and adult scolices is supplemented by feeding experiments.

These feeding experiments are of several types. For sixteen species, cysticercoids found as natural infestations have been fed to primary hosts and adult cestodes have been obtained. For twelve species, eight of which are also included in the first-named group of sixteen, ova of known cestodes have been fed to intermediate hosts, and cysticercoids subsequently have been recovered. With five of the species of cestodes discussed, ova of the species in question have been fed intermediate hosts; cysticercoids have been recovered from such hosts and fed to primary hosts kept under controlled conditions; and, after a time, adult cestodes have been recovered from these primary hosts.

It is recognized that life histories established solely by laboratory experiment are open to criticism on the score of not representing natural conditions. Without doubt the finding of natural infestations is highly important. It is necessary to keep in mind that checking the identity of cysticercoids found as natural infestations, by feeding such larvae to suitable primary hosts, is also highly important. The desirable thing, difficult to achieve, is a combination of natural infestations, experimental feedings of intermediate and primary hosts, and a comparative study of the scolices of cysticercoid and adult.

It seems to the present writer quite impossible to determine, without question, the specific identity of a cysticercoid by a comparison of larval and adult scolices alone, except when the scolex of a species is sufficient to



differentiate that species from related forms. The difficulty is obvious with many unarmed forms, but also applies to species in which the rostellar hooks are very similar in number and size.

However, since experimental feedings are difficult in the case of species which occur as adults in wild birds, identification of the cysticercoids of such species is likely to continue to be based in large part on a comparison of larval and adult scolices. With this in mind, a comparison was made of the scolices of larva and adult of certain species; in these cases the identity of the larva has been checked by feeding experiments and the descriptions of the larval and adult scolices are complete. A brief analysis of this comparative study indicates the following: The scolex of the larva may vary from about one fifth of the diameter of the adult scolex to very nearly the same diameter. In the majority of the species the larval scolex is about half, or slightly less than half, the diameter of the adult scolex. Suckers of the larva tend to be half, or slightly more than half, the size of the suckers of the adult. In all the species compared, the number of rostellar hooks of the larva is within the variation in number of rostellar hooks reported for the adult. The rostellar hooks of larvae do not appear to be consistently smaller than the hooks of corresponding adults. Should the hooks of a cysticercoide be markedly smaller than those of an adult under consideration, it is probable that the cysticercoide is not completely formed or that another species is involved. From the comparison of the larval hooks and adult hooks of the twelve species considered, one would expect rostellar hooks of a cysticercoide to represent approximately the size of the adult hooks.

#### CONCLUSION

The present paper consists of descriptions of the larvae of the cyclophyllid cestodes of birds, forty species of cestodes being considered and thirty-four larvae being described. There are included a historical review of the subject and a comparison of the scolices of larvae and corresponding adults of certain species. Data on experimental development or the discovery of natural infestations as the basis for the specific determination of cysticercoids are indicated in all cases. Original descriptions of five cysticercoids as well as observations on the morphology and biology of various forms are recorded.



## THE CERTIFICATION AND APPOINTMENT OF TEACHERS IN CITIES

By JAMES BASCOE SULLIVAN<sup>1</sup>

This thesis is a study of certification and appointment of teachers in 114 cities. The population of the cities ranges from 17,000 to more than 6,000,000. For certain phases of the study, the cities have been divided into four groups on the basis of population. These groups are as follows: group I, twelve cities with a population of 500,000 or more; group II, nineteen cities of 250,000 to 500,000; group III, thirty-two cities of 100,000 to 250,000; group IV, fifty-one cities of 17,000 to 100,000.

The problem of the study is to furnish data concerning certification and appointment of teachers in cities; to make comparisons between cities as to standards of requirements for certificates and appointment; to compare minimum requirements for appointment in cities with requirements of State departments of education for the issuance of teachers' certificates; to point out trends in the certification of teachers in cities; and to draw conclusions and make recommendations on the basis of the above findings.

The data for this study were collected through questionnaires, from bulletins on certification and appointment of teachers, and other literature from State and city departments of education.

There are four different agencies which issue certificates of teachers in the cities included in this study. These agencies are State departments of education, county school authorities, educational institutions, and local school authorities. The two main bases on which teachers' certificates are issued are college credits and written examinations. Among the cities that require applicants to take examinations, four different types of examinations are used. They include written, physical, practical, and oral examinations. In the group composed of cities of 500,000 or more of population, greater use is made of written examinations as a basis for determining teachers' qualifications than in groups composed of smaller cities. Some cities use all four of the different types of examinations, while others use only some of them.

Of the 114 cities included in this study, twenty-one have some kind of examining authorities for the examination of applicants for teaching positions. In the main, the personnel of examining bodies in cities is composed of school officials who hold other positions in these school systems. Such officials, most commonly, are superintendents, assistant

<sup>1</sup> A.B. 1912, Mercer University; A.M. 1922, Columbia University; Ph.D. conferred June 15, 1932.

or deputy superintendents, supervisors, principals, and teachers. The more important duties of examiners are the following: to interview applicants for teaching positions; to evaluate college credits; to construct and give examinations; to score examination papers; to establish eligible lists; and to issue teachers' certificates.

Investigation of the methods of appointing teachers in cities shows that the board of education is the final authority in appointment. It is the common practice for teachers to be appointed by the board of education upon the recommendation of the superintendent of schools. However, there seems to be a tendency for school officials other than the superintendent of schools and board of education to participate in appointment, at least to the extent of recommending applicants. The officials who participate in appointment most frequently—in addition to the superintendent and board of education—are assistant or deputy superintendents, supervisors, principals, and heads of departments.

Fifty-six cities out of the total number studied make use of eligible lists in the appointment of teachers. Thirty-four of these cities make appointments in the order or rank on the eligible lists. These lists in the various school systems are prepared by administrative and supervisory officers, examining authorities, and personnel officers.

There is considerable variation among cities in the amount of experience required for the appointment of teachers. Seventy-three cities out of 114 require no experience for the appointment of elementary teachers. Thirty-seven other cities require one or two years' experience. Experience seems to be regarded as a more important requirement for appointment of junior and senior high-school teachers than for appointment of elementary teachers. The amount of experience required for appointment of junior high-school teachers varies from one to four years; for senior high-school teachers, from one to three years. Forty-two cities for junior high schools, and thirty-seven cities for senior high schools, require no experience for appointment.

Periods of probationary service in fifty-two cities vary in length from less than one year to four years. Fifty-three cities require no probationary service.

The types of tenure found in the various cities are the following: annual election, indefinite tenure, and permanent tenure. Sixty-one cities have annual elections, eight indefinite tenure, and thirty-seven permanent tenure. Three cities use combinations of the above types of tenure.

It was found that sixty-nine cities require teachers to contribute to retirement funds. The two main bases on which contributions are made are percentage of salary and a flat-rate basis.

This study has shown a wide range of educational requirements for appointment in cities. For appointment of teachers in elementary schools,

the requirements range from two to four years of training above high school. For appointment of teachers of academic subjects in junior high schools, the amount of general education above high school required ranges from two to five years. In senior high schools the requirements, in terms of years above high school for appointment of teachers of academic subjects, range from four to five years; for appointment of teachers of six special subjects in senior high schools the requirements range from no fixed amount to five years of training above high school.

With reference to the amount of training required in subjects to be taught, the amount ranges—for those cities which state requirements in definite numbers of semester-hours—from ten semester-hours to forty-one semester-hours for academic subjects. The median requirement is eighteen semester-hours. The median requirement for professional training of teachers of academic subjects is sixteen semester-hours. The range of requirements is from six to thirty semester-hours in professional training for teachers of academic subjects. For appointment of teachers of special subjects in senior high schools, the amount of training in the subjects to be taught ranges from no fixed requirement to sixty semester-hours, with a median requirement of twenty-four semester-hours. The median requirement in professional training for teachers of special subjects is fifteen semester-hours, and the range is from no fixed requirement to twenty-five semester-hours.

One of the interesting situations found in this study is the great number of different standards of requirements in different school systems for teaching the same subjects in similar high schools. There are as many as thirteen different standards of requirements among the academic subjects, and as many as fifteen among special subjects for teaching them in senior high schools. There are eleven different standards of requirements for professional training of teachers of academic subjects in senior high schools, and twelve different standards for teachers of special subjects.

Comparison of cities by groups shows for group I that 25 percent of the twelve cities of this group require only two years of training above high school for appointment to positions as elementary-school teachers, 25 percent require three years, and 50 percent require four years. Of the cities in group II, 68 percent (68+) require only two years of training above high school for appointment as elementary teachers, 21 percent (21+) require three years, and 10 percent (10+) require four years for appointment. Of the thirty-two cities in group III, 75 percent require only two years for appointment as elementary teachers, 12.50 percent three years, and the same percent four years. Of fifty cities in group IV, 76 percent require two years of training above high school for appointment as elementary teachers, 12 percent require three years, and 12 percent require four years. The group containing the largest cities has the highest percentage of four-year requirements.



For appointment of teachers of academic subjects in junior high schools, in group I, 8.3 percent require two years, and the same percent require three years and five years respectively, while 75 percent require four years. In group II all the cities that designate junior high schools require four years for appointment of teachers. In group III, of the twenty-eight cities that designate junior high schools, 7.1 percent require two years and three years respectively, and 85.7 percent require four years. In group IV, of forty cities that designate junior high schools, 15 percent require two years, 10 percent require three years, and 75 percent require four years.

In senior high schools of group I, for appointment of teachers of academic subjects, 66.6 percent of the cities require four years, and 33.3 percent require five years above high school. All cities, one hundred percent, in group II require four years above high school for appointment. In group III, 93.75 percent of the cities require four years, and 6.25 percent require five years for appointment. In group IV, 98 (98+) percent of the cities require four years, and approximately 2 (1.9) percent require five years for appointment.

The median requirement of training in academic subjects to be taught in senior high schools in each of the four groups is as follows: group I, eighteen semester-hours; group II, eighteen semester-hours for four subjects and twenty-four semester-hours for one other subject; group III, eighteen semester-hours; group IV, sixteen semester-hours for four subjects and fifteen semester-hours for one other subject.

The median number of semester-hours of professional training required for appointment of teachers of academic subjects in senior high schools in cities of groups I and III is eighteen semester-hours, and in groups II and IV it is sixteen semester-hours. When the cities are compared by groups, the median requirements for different groups vary but little in the amount of training required in subjects to be taught. Requirements in professional training for appointment of junior high-school teachers vary but little from those of senior high-school teachers.

#### CONCLUSIONS

The trend in the cities is for teachers' certificates to be based on college credentials instead of written examinations.

There is a noticeable tendency in the appointment of teachers in cities for school officials other than school boards and superintendents in school systems to participate in appointment of teachers, at least to the extent of recommending applicants. This tendency seems to be in keeping with the principle that authority and responsibility should be coordinated. That is, if the principal of a school is to be held responsible for the success of his school, then he should have a voice in the appointment of teachers who are to help make his school a success or failure, as the case may be.

There is a great lack of uniformity of requirements for appointment of



teachers in cities. While absolute uniformity may not be desirable, the amount of variation found in this study seems to be unjustifiable. This is particularly noticeable with reference to the amount of training required in subjects to be taught, both academic and special, for appointment of high-school teachers. A similar condition exists with reference to the amount of professional training required. Further study of requirements for appointment of teachers seems desirable for the establishment of standards with reference to the amount of training that should be required in subjects to be taught. Similar studies relative to the amount of professional training to be required should be of value.

Many cities do not specify the definite amount of training in subjects to be taught that applicants must have.

In some cities the minimum amount of training required for appointment is two and one-half times the amount required in other cities.

In view of the above, it would seem that there is need for readjustment in the amount of training to be required for appointment of teachers.

The fact that thirty-five city school systems out of 114 included in this study require more than two years of training above high school for appointment of elementary teachers, and that of these thirty-five cities, eighteen require four years, and seventeen require three years, and the further fact that other cities are working toward higher requirements, would seem to indicate that the school authorities responsible for determining teachers' qualifications regard higher training as desirable. In view of this trend toward higher requirements, and the actual requirements in so many cities, it seems that those cities which do not now require more than two years of training for appointment of elementary teachers, should set up four years of training above high school as a minimum requirement for appointment.

There is very little evidence in this study to indicate that there is any trend toward requiring more than four years of training above high school for the appointment of junior high-school teachers. However, for those cities for which data on junior high schools are given, the requirement for appointment is four years of training beyond high school for seventy-six cities, and seventeen cities require less than four years—nine of these, two years, and eight, three years. In view of this, it would seem that four years of training above high school should be the minimum requirement for appointment of teachers in junior high schools.

There are seven cities among the 114 that require five years of training beyond high school for appointment of senior high-school teachers. Other cities indicate that they are working toward the five-year requirement. If the teacher with the greater amount of training is the superior teacher, other factors being equal, then it would seem that school authorities who are responsible for determining requirements for appointment of teachers would do well to make five years of training beyond high

school the minimum requirement for the appointment of senior high school teachers.

Comparison of minimum requirements for appointment in cities with requirements of State departments of education for the issuance of certificates shows that the requirements of the States for the highest type of certificates vary but little from the minimum requirements of the cities for appointment. Many States, however, issue the lowest type of certificate on requirements lower than the minimum requirements of cities for appointment. In view of this practice, and in view of the tendency to centralize certificating power in State departments of education, it would seem that the State department which issues certificates of teachers in cities should make its minimum requirements for the issuance of certificates at least equal to the requirements of cities for appointment of teachers.

#### BIBLIOGRAPHICAL NOTE

Important references in the preparation of the study summarized in the foregoing pages are bulletins of the Research Division of the National Education Association and bulletins of the United States Office of Education. These and other important references are included in the bibliography submitted with the thesis.

## STATE CONTROL OF MUNICIPAL CORPORATIONS IN VIRGINIA

By WENSAN WANG<sup>1</sup>

The author of this dissertation has traced the development of municipal corporations in Virginia, including quasi-municipal corporations, such as parishes and townships, from the colonial period down to the present, and has indicated the trend and forms of State control so as to throw some light upon its future policy.

Sources of a primary character which have been consulted consist of the constitutions of Virginia; acts of the General Assembly and other legislative documents; annual reports of the Supreme Court of Appeals of Virginia; Governors' messages and letters; reports of State officers, boards, departments, or institutions; and municipal charters and ordinances of many larger or older corporations.

A study of the development of municipal corporations reveals a process of evolution in the structure of the local governmental system in Virginia from quasi-municipal corporations to municipal corporations. Virginia had no municipal corporations until 1722. However, both before and after the formation of chartered boroughs, the Virginia parish had a unique place in the system of local government. For some time the functions of local government were vested in the parish, whose powers were exercised in the vestry meeting. It performed numerous duties which were not ecclesiastical but civil in character. It was the duty of the parish government to perform such civil functions as the keeping of the public peace, the supervision of public morals, the caring for the poor, the renewal of boundaries, the assessment and collection of public levies, and the keeping of a register of all deaths, births, and marriages. Following 1655, townships were created, primarily to encourage the growth of community life and the development of trade and manufacturing centers. Owing to the disposition of the people, the natural environment, the conflict of class interest, and the English Government policy, the creation of townships in Virginia had little success except in paving the way for the growth of municipal corporations.

The system of municipal government in Virginia was, at the outset, an importation from England. Williamsburg was granted a charter in 1722, and Norfolk in 1736. As in the English prototype, all local powers, legislative, judicial, and administrative, were vested in the mayor, recorder, aldermen, and councilmen, acting as one body. However, the

<sup>1</sup> A.B. 1923, Boone College; M.S. 1928, Columbia University; Ph.D. conferred June 15, 1932.



Virginia municipal corporations differed from the English boroughs in that the former became close corporations and remained such until some time after the Revolution. It would thus appear that the incorporated communities in Virginia enjoyed self-perpetuation in organization, but in the exercise of municipal functions not provided for in charters they were subject to the control of the colonial Assembly.

Following the Revolution, the General Assembly of Virginia, in which the State powers reside, has exercised control over municipal corporations. Consequently, its powers are vastly wider than those of the colonial body, including even incorporation or dissolution of municipal corporations. At different intervals, however, in view of some unnecessary legislative interference with certain municipal problems, the people have written into their constitutions many provisions of a restrictive nature. These, together with certain powers delegated to the National Government, constitute constitutional limitations on the supremacy of the General Assembly.

Since the system of State government in Virginia was patterned on the basis of the separation of powers, the judicial and executive departments also share in the State control of municipal corporations. The judicial department has power to interpret laws and to enforce the same in terms of legal action. Furthermore, from the right of incorporated communities to sue and the liability to be sued grows the principle that the ordinary rules which govern in proceedings between private persons or private corporations are applicable to actions by or against municipal corporations. These form the basis of judicial control, which aims to keep the municipal authorities within the orbit of the law.

The fact that the powers committed to municipal corporations are extremely liable to abuse, coupled with the possibility of official error, has brought about a system of judicial control over all incorporated communities in Virginia. This system covers the incorporation of towns, matters relative to amending or nullifying charters, legislative activities of municipal councils such as the making of ordinances and regulations, and acts of administrative departments and authorities. It embodies therein remedies to prevent, correct, and redress unauthorized or illegal acts by all municipalities within the Commonwealth of Virginia.

While both legislative and judicial control are necessary in many respects, the author is of the opinion that they are unable to cope with the problems of modern urban civilization. Legislative control cannot be adequately extended to the actual operation of municipal functions. Judicial control is often too slow and too cumbersome to be compatible with the demands of municipal needs. Violation of charter provisions or statutory requirements by a municipality may go on for months and years before the courts can lay their hands on the administration. To supple-



ment, but not to supersede, these two forms of State check on municipal corporations, there is administrative control.

Since the middle of the nineteenth century, Virginia has assumed greater and greater administrative control over municipal corporations. Her municipal activities are characterized by the increasing control of the administrative departments or boards of the State. Under modern civilization, many of the municipal activities are interwoven with the interest of the State at large. It is impracticable to let cities or towns have complete freedom in handling such matters as finance, taxation, public hygiene and sanitation, public education, charities and corrections, and public safety. It is only natural that the State should exercise the administrative form of control over municipal corporations. During the last thirty years, particularly the past few years, Virginia has adopted many wholesome and constructive legislative measures designed to bring about more efficient and orderly processes of government for the State and the municipal corporations as well. In such legislation there are two distinct features: one has for its object the centralization of the State administration; the other, a gradual introduction of the system of State administrative control over municipal corporations. However, the two are somewhat interrelated. When the State has effected a centralized administration, it automatically increases the efficiency of the State departments, commissions, or boards. The greater the degree of efficiency achieved by the State agencies, the more will their influence be extended to local administration. Of the results of the Reorganization Plan of 1927, it is still too early to speak conclusively. Nevertheless, the trend of development has been, and still is, toward the firmer establishment of a wider and more effective form of administrative control, while both the legislative and judicial forms of control continue to perform their normal function so far as the problem of the State-local relation is concerned.

By means of many mechanisms, namely, the grant-in-aid, inspection, reporting, counsel and advice, instruction, order, and recommendation, the State is extending its administrative control over many municipal activities which were formerly left to the independent action of the cities and towns. This is particularly true with regard to municipal finance, since the State depends for its revenue very largely upon the taxable wealth of municipal corporations. Furthermore, the State is the source from which the municipalities receive their power of taxing and borrowing. At present the power of supervising municipal finance is vested in the Department of Taxation, of which the chief is the State Tax Commissioner. Briefly, the State Department of Taxation has power to supervise the administration of the assessment and tax laws of the State; to exercise general supervision over all public officers connected with taxation; to remove or to suspend local commissioners of revenue for incompetency, neglect, or other official misconduct; to call for and prescribe the necessary

forms of statistical reports; and to render aid and assistance to local tax officers in case of necessity. Thus, the State Tax Commissioner exercises quite an extensive control over municipal tax officers in the form of opinions on questions of taxation, personal visitation and conference, instruction by letter and circular, and participation in local assessing processes.

Next to municipal finance is public health. The act of 1872, creating the State Board of Health, was the first attempt in Virginia to establish a State agency to "take cognizance of the interests of health and life" in the State at large. During the course of sixty years many measures were adopted to facilitate cooperation between the State and local health authorities so that the joint resources of the State and municipalities could be employed in the study of sanitary problems and in the prevention of communicable diseases. Under certain conditions the State Department of Health has power to appoint the members of boards of health of municipalities. The drafting of municipal health ordinances by the State authorities for adoption by a city or town also plays an important part in the improvement of local sanitary conditions. In case of epidemics, the State Department of Health exercises the exclusive control of the disease, its isolation, and the quarantine of suspects. One of the most important functions of the State in exercising administrative control is the supervision of the waterworks and water supplies situated in, or operated by, municipal corporations. Closely allied to the problem of waterworks and water supplies is the proper maintenance of the sanitary sewage system. There are many instances illustrating the principle that the State authorities can intervene whenever any municipal corporation fails to exercise the duty imposed upon it by law. Other health matters, such as vital statistics, oyster beds, and swimming pools, are also under the control of the State.

The State free public-school system in Virginia was inaugurated in 1870. Prior to that time there were some municipal corporations which had already in operation their own system of public education. Soon after 1870 the public schools of the municipalities were taken over and became a part of the State system, the governing power of which was vested in the State Board of Education. In addition to its general supervision of all public-school systems within or without the municipal corporations, the State Board now controls even the building of schoolhouses and selection of school furniture and textbooks. Likewise, the State control has gradually penetrated into many other fields of municipal activities, e.g., charities and corrections in 1908, and fire departments in 1906. This process of penetration is still going on.

Apparently an old problem is involved, that is, What relation should exist between the State and the municipal government? This is generally recognized as one of the most difficult problems which have baffled students of local government. While local self-determination may affect

the general welfare of the State, too much centralized State control may endanger the spirit and initiative of municipal government. In the opinion of the author, there is a middle ground where the interests of the State can be conserved and the initiative of local communities maintained.

The author believes that a dual standard of administrative control is a solution of this problem. The General Assembly should set up certain minimum standards of administration for all municipal corporations, large and small, requiring that unless the requirements provided for in such standards be properly fulfilled, the corporations will be subjected to the strict administrative control of the State. In actual operation it will result in two possible developments: (1) larger or well-organized municipal corporations will be in a position to comply with the statutory requirements, hence little administrative control will be necessary; (2) smaller or poorly administered municipal corporations will find it difficult to fulfill the requirements as prescribed by law, and strict administrative control will follow. The former class of municipalities will, therefore, enjoy more freedom in handling their own municipal problems without prejudice to the general welfare of the State, while the latter class may be induced to promote their efficiency under the supervision and control of the authorities of the State.

The fundamental idea of the dual standard of administrative control is to encourage the development of the municipal corporations and the promotion of their efficiency. It will give to all well-organized municipalities discretion to manage their own affairs in their own way, while they are still subject to State control. The State executive departments will have power to intervene at any and all times, but such power should be held in reserve until there are sufficient evidences to justify intervention. After adoption of this principle, many corporations will be able to attain a state of conditional local autonomy which, if properly carried out, is neither incompatible with the general welfare of the State nor inconsistent with the trend of administrative control of municipal corporations.



# THE EFFECT OF BARBITAL UPON THE SEX AND MATERNAL DRIVES OF THE WHITE RAT

By BLANCHE BOWDEN WILCOX<sup>1</sup>

## THE PURPOSE OF THE EXPERIMENT

In this investigation the purpose was to study the sex and maternal drives, especially as regards the degree of change, variation, and modification brought about through the long-continued administration of the drug *barbital*.

In the course of the investigation, where marked differences occurred which were not anticipated, it became advisable to control a number of factors, just as far as such control related to the purposes of the investigation.

First, the characteristics of development were minutely watched and charted and studied in the particular strain of rats being used. The experimental animals were obtained from the U.S. Department of Agriculture. Secondly, the oestrous cycle was noted and studied because of its relation to the periodic variations in the sex drive of the female rat. Finally, the maternal drive was measured because of its close relation to sex and elimination.

Utilizing the foregoing as a background, the sex drive was investigated in the female Albino rats which had intraperitoneal barbital injections over a relatively long period of time. These results were used in comparisons which were later made and which in turn form the basis for most of the conclusions advanced.

## APPARATUS USED

In the course of this investigation it became necessary to use various apparatus, both mechanical and electrical. The experience of other investigators was utilized and improved upon toward the ultimate purpose of the investigation.

An ear-marking method was early resorted to in order to differentiate the rats at all times and periods, accurately and quickly.

In measuring the sex drive the Columbian obstruction method was utilized—an experimental box with an electrical grid similar to the type devised by Warner. The box contained three compartments, the center one long and narrow and low, so that it was impossible for a rat to jump across the electrified section of copper strips. The current was controlled

<sup>1</sup> A.B. 1929, A.M. 1930, The George Washington University; Ph.D. conferred June 15, 1932.



by means of a rheostat, which in turn was connected with standard alternating house current. The maximum amount possible was 110 volts. There were two other compartments, one at each end: the reward compartment and the compartment used as the entrance. The index of activity was voltage over time in minutes. This indicated the number of volts increase in resistance overcome per minute of activity up to the moment of the ultimate maximum resistance.

The method followed (which was accurately charted and recorded, each individual animal being identified by its number as punched in its ears) was to allow the rats a definite time to explore the whole box before the electric current was admitted to the grid. The rats were then separated, the male placed in one compartment, the female in the other at the opposite end of the grid. Next, the current was allowed to flow across the copper strips through the rheostat, beginning at the lower voltages. The current was gradually increased, five volts at a time, until the maximum amount for each rat being tested was obtained, as found in its unwillingness to cross the grid in order to reach its incentive. The device was so constructed that the incentive animal was prevented from crossing the grid after the current was turned on.

Each step in this investigation by the use of the electrical obstruction box was noted and recorded, as, for example, number of approaches, number of contacts, number of crossings, the average voltage absorbed in the attempt to reach the incentive, the average time consumed in a determination to cross; and finally an average was obtained of  $\frac{\text{voltage}}{\text{time}}$  and given as an index of activity.

#### THE DEVELOPMENT AND CARE OF THE ANIMALS USED

Considerable and extended studies were made relative to the day-by-day development of the Albino white rat from birth to maturity. This was found advisable in the investigation of the subject, since it was necessary to be assured that no unknown factors were overlooked that might somehow obscure or cloud the problem and its logical development.

In addition, the observations recorded as to differences between the males and the females given in minutiae established averages essential to the development of the investigation. The beginning of the oestrous cycle was noted in the females, for example, and the evidences establishing this factor were recorded. Of interest and essential to the investigation was the relationship of the female rat to her young and the relationship of the male to the young.

Other factors of subsidiary importance recorded had to do with diet, care, housing, handling, and related matters.

Following the intensified study of the life of the white rat came the psychological conditions of oestrus as related to the sex drive. The

purpose of this investigation was to observe and record the sex drive, or more specifically, the effect of certain physiological conditions most intimately related to it. The study of the sex drive in the female took into consideration the oestrous cycle, and since in the rat the evidences of the cycle found in the larger animals, such as the pronounced changes in the amount and character of the vaginal secretion, are not easily observable, it was necessary to resort to microscopic observation of vaginal smears. Each stage was observed and recorded as to length in hours, mode, and average. There is a very definite relationship between the histological character of the secretion of the female and her tendency at the moment to cross an electrical obstruction to reach the male.

#### SUMMARY OF EXPERIMENTS

In pursuit of the investigation a number of experiments were conducted. The female and male sex drives and the maternal drive were measured, and the study of the influence of barbital on the female sex and maternal drive followed. It was necessary to establish definite averages in order to carefully check each step.

Two groups of rats were used. The injected animals received the moderately toxic dose of barbital of 100 mg per kilo of body weight in 1 percent solution of soluble sodium salt injected intraperitoneally every forty-eight hours for nine months. This is nearly one third of the lifetime of the average rat. Later the control group was equated with the injected group except for the factor of long barbital administration. The drug-injected rats and the normal controls were each divided into five subgroups, which were given sodium barbital in doses ranging from 225 to 325 mg per kilo of body weight. Two or three percent solutions of the drug were used for the higher dosages, so that the total amount of liquid injected would remain somewhat constant for all groups. This established the minimum lethal dose at 300 mg per body weight for normal control rats and 330 mg for the barbital groups.

A period of time from five to seven days was allowed to elapse between injections. This was insisted upon to allow ample time for complete excretion of former doses.

Autopsies were performed on the animals that died as a result of the toxic doses of barbital, and the results were fairly uniform findings as to heart, lungs, stomach, intestines, liver, spleen, adrenals, kidneys, uterus, ovaries, and brain.

In the work relative to sex drive, indications were that the female sex drive reached its peak of activity at the second period of oestrus, at which time the drive was stronger than the male sex drive. For example, there were no females who refused to cross the grid. The index of activity of the females was 22.38 volts per minute as compared with 7.00 volts per minute for the males. The voltage taken was noted. In the experiments



conducted on measuring the maternal drive, it was observed that the female rat before nursing will endure greater punishment as recorded in electrical contacts, make more approaches, contacting more times, with an activity index of 2.41 volts per minute as compared to 1.57 volts per minute after nursing, indicating that the physiological condition of the mammary glands affects the maternal activity.

The detailed work on the influence of barbital on both sex and maternal drives showed that a normal rat will approach more times, contact more times, cross more frequently, and stand higher volts in less minutes than a rat that has been injected with barbital over a period of nine months. Barbital and its effect on the maternal showed definite decreases in fertility over an equal period of time. Indications were also found of a higher degree of premature and abnormal births among such injected animals than among the animals under normal conditions. The female, it was observed, will take 22.38 volts per minute, while the male will take only 7.00 volts to satisfy the sex drive. The barbital-injected female, on the other hand, takes but 3.02 volts per minute to satisfy the sex drive.

In the series of experiments conducted, it appeared that the female sex drive is the strongest drive and is followed in descending order of strength by the male sex drive, the barbital female sex drive, the maternal drive before nursing, and finally by the maternal drive after nursing. This order of drive strength, with the quantitative estimation of the strengths of these various drives, is considered among the most valuable results of the investigation.

#### CONCLUSIONS

The essential problem of the barbital injection was the effect that the administration of a specific drug such as barbital had on behavior; that is, the extent to which it affects the response of the animal to a fundamental and associated drives. The clinical and pharmacological use of barbital has been extensively studied, but there has been very little work reported on its action in modifying total behavior. It is hoped that the work on this total-behavior phase, as recorded in the results of the series of experiments, tests, and observations, may be found to be a definite contribution to this subject.

The following conclusions have been drawn as the result of the detailed study and investigations recorded:

1. The strength of the female sex drive varies with the stage of the oestrous cycle, reaching its peak at the second day.
2. The sex drive of the normal female at the peak of the oestrous is markedly greater than that of the male as indicated in volt-per-minute rates of resistance overcome, the comparison showing 22.4 for the female as compared with 7 for the male.
3. The intraperitoneal injection of the females every forty-eight hours

over a period of nine months with moderately toxic doses of barbital caused a marked decrease in the sex drive, reaching to a point below that of the male.

4. When a short period is allowed to elapse after the birth of young, for the activity of the quickly ensuing oestrous and of nest building to be largely dissipated, it was observed that the remaining maternal drive at all stages is weaker than that for any sex drive tested.

5. The maternal drive of the rat was found to be stronger when the mammary glands are distended, since it was found that a rate of resistance of 2.4 volts per minute was overcome, as compared with only 1.5 volts per minute in the female after nursing the young.

6. It was found in this investigation that associated with decreased sex drive in the barbital-injected females was a marked decrease in the fertility of the animals.

7. It was noted that gross abnormalities at the birth of young occurred in the barbital-injected females which did bear litters.

8. Disturbed nutrition due to the long-continued barbital administration was not observed.

9. The most important obvious sex difference observed in the animals at birth was the ano-genital distance of  $\frac{3}{8}$  inch for the females as compared with  $\frac{1}{4}$  inch for the males.



## THE FAUNA AND STRATIGRAPHY OF THE TULLY LIMESTONE OF NEW YORK

By JAMES STEWART WILLIAMS<sup>1</sup>

The Tully Limestone is a thin limestone formation which extends some one hundred miles across central New York from Canandaigua Lake on the west to the Chenango Valley on the east. The maximum thickness of the formation, which is reached in the vicinity of Tully, Onondaga County, is only 40 feet; and at the westernmost exposure, in Gage Creek, near Canandaigua Lake, its thickness is only 3 feet. The blue-black limestone which constitutes the greater part of the formation is always impure, but it is much harder than the soft shales above and below it, and, as a result, the Tully generally appears as a ledge in the sides of the valleys or as a low ridge in the rolling landscape; and where streams cross its outcrop, it forms picturesque waterfalls.

Economically the Tully Limestone is of considerable value, the massive, fine-grained rock of which it is composed in the vicinity of Cayuga and Seneca Lakes being suitable for portland cement as well as for road material. But the chief interest in the formation is academic and concerns its fauna and stratigraphic position. In the basal limestone layers of the formation is the brachiopod *Hypothyridina venustula*, which is generally considered so similar to a closely related European species, *Hypothyridina cuboides*, as to be indistinguishable from it. In Europe the Upper Devonian begins with argillaceous limestone characterized by the presence of *H. cuboides*, and consequently the impure Tully Limestone with *H. venustula* is considered to mark the base of the Upper Devonian in New York. The fauna and the stratigraphy of the Tully are therefore of particular interest.

### FIELD WORK AND MATERIAL FOR STUDY

This paper is based upon the results of field work done in the summer of 1931. The limestone was studied at twenty separate localities spaced along the entire line of outcrop from Gage Creek, Ontario County, to West Brook, Chenango County. About seven hundred pounds of fossils were collected and sent to the U.S. National Museum. This material, with a collection made in 1888 by Ira Sayles for H. S. Williams, and a quantity of material brought from West Brook by G. A. Cooper, constituted the material available for study.

<sup>1</sup> B.S. 1923, Brigham Young University; A.M. 1927, Columbia University; Ph.D. conferred June 15, 1932.

## THE DEVELOPMENT OF THE CLASSIFICATION OF THE TULLY LIMESTONE

The name "Tully Limestone" was first applied to the formation in 1839 by Lardner Vanuxem and James Hall in their respective annual reports for the third and fourth districts of the New York Geological Survey. Previously the formation had been indirectly referred to in the writings of Amos Eaton, beginning with his report of a "Geological and Agricultural Survey of the District adjoining the Erie Canal", published in 1824. The development of the classification of the formation is described in detail from the time of Eaton up to the present.

## THE LINE OF OUTCROP

A detailed description is given of the line of outcrop from Gage Creek, the westernmost locality, to West Brook, the last known outcrop to the east. This description is based upon personal observations and all additional information available in the literature. It is accompanied by a map based on the U.S.G.S. base map of scale 1 : 500,000, showing the line of outcrop of the Tully Limestone in New York and the localities at which detailed studies were made.

## THICKNESS

As far east as the Owasco Lake Valley the layers of massive limestone which constitute the major part of the formation are followed by alternating layers of limestone and black shale transitional to the Genesee Shale above. In parts of the Tully and Cazenovia quadrangles the contact between the Tully and the Moscow Shale below is a gradational one, there being 6 to 14 feet of calcareous shale and thin-bedded argillaceous limestone lithologically transitional between the Moscow and the Tully. Considered as a stratigraphic unit, the formation must include these transition beds above and below the limestone element.

The varying thickness of these elements and the variation in thickness of the formation as a whole are discussed in detail, and a table (table No. 1) showing all values for the thickness reported in the literature or measured by the writer, is appended.

## STRUCTURE

The Tully is the southernmost limestone that outcrops in New York, and it makes an ideal horizon marker because of its distinctive lithological character and peculiar fossils. Its structural features are important as revealing the structure of the other rocks in central New York, particularly since explorations for oil and gas have begun in that region.

The variation in the dip of the limestone from one extremity of the line of outcrop to the other is discussed in detail, and table No. 2 shows the dip between various localities. Table No. 1 includes a column giving the recorded elevations for all known localities and the authority for each.

### THE TYPE SECTION, SECTIONS EAST OF TULLY, AND SECTIONS WEST OF TULLY

The type section is described as it appears in June's and Carr's quarries, near the village of Tully, and detailed descriptions are given of the sections east and west of that locality. Figures 7 and 8 are columnar sections illustrating these descriptions.

The section at West Brook, Chenango County, is described. This section, which was discovered in 1928 by G. A. Cooper, is of particular interest for several reasons. Up to that time the easternmost outcrop known was between Upperville and Smyrna, Chenango County, and Cooper's discovery has extended the known eastern limit of the formation some eight miles. At West Brook the limestone element of the formation is only  $3\frac{1}{2}$  feet thick, and it is followed by  $3\frac{1}{2}$  feet of calcareous shale with abundant fossils. This new stratigraphic element has been called the West Brook Shale Member, and it has added greatly to the list of fossils known from the Tully. A summary list of the fossils of the West Brook Shale Member is given in the description of the section.

### LITHOLOGY

From the vicinity of Skaneateles Lake to the western extremity of its outcrop, the greater part of the limestone element of the formation is in massive layers from 1 to 9 feet thick. The rock of these layers is a fine-grained, blue-black limestone that breaks with a smooth, subconchoidal fracture and upon weathering turns a light gray. From Seneca Lake to Skaneateles Lake the thick, massive layers are followed by thinner, alternating layers of limestone and black shale. East of Skaneateles Lake the lithological character of the formation gradually changes until the limestone element has diminished to a few thin layers of arenaceous limestone, and the greater part of the section consists of limy shales very similar to the Moscow shales below. From Tinkers Falls to Arab Hill there are 7 to 10 feet of calcareous shale and thin-bedded limestone below the layers of arenaceous limestone. At Borodino part of the limestone is crinoidal; at West Brook part is oolitic; and at Arab Hill and Deruyter there is a layer of nodular limestone.

The various lithological phases of the formation and their relation to the stratigraphy are discussed in this section.

### THE FAUNA

The fauna of the Tully Limestone is now generally understood to be a composite one consisting of (1) persistent, unmodified Hamilton species; (2) modified Hamilton species which appear in the Tully as new varieties or species; and (3) immigrant species which are not found below the Tully and therefore give to it the distinction of marking the beginning of the



Upper Devonian in eastern North America. This study has produced nothing that tends to modify the general conception of the fauna. It has, however, added greatly to the number of unmodified Hamilton species listed for the Tully and includes the descriptions of four new species. At least six other new species that have not yet been described are noted in the faunal list.

The only faunal list that is known to have been previously published for the Tully Limestone is that of S. G. Williams (1887). It includes 122 entries. The faunal list of this paper (table No. 3) has 192 entries, including sixteen that were reported by S. G. Williams but have not been seen during this study. It shows the distribution of species over twenty-nine localities and their distribution in the section at seven localities. It also serves as a complete faunal list for the stratigraphic units of the formation including the West Brook Shale Member.

#### STRATIGRAPHY

It is found that there are five more or less well-defined stratigraphic units recognizable in the Tully. These units have been designated: (1) the *Chonetes aurora* Zone; (2) the *Hypothyridina venustula* Zone; (3) the *Lopholasma* cf. *L. carinatum* Zone; (4) the West Brook Shale Member; (5) the *Tropidoleptus carinatus* Bed.

The *C. aurora* Zone is at the bottom of the section from the vicinity of Tinkers Falls to the vicinity of Arab Hill. It consists of 6 to 14 feet of calcareous shale and thin-bedded argillaceous limestone lithologically transitional between the Moscow and the Tully and characterized by an abundance of *Chonetes aurora* and the absence of *Hypothyridina venustula*.

The *H. venustula* Zone is characterized by *H. venustula*. Only at one known locality does this fossil, considered the index fossil of the formation, persist to the top of the section. In the vicinity of Tully its vertical range is probably 20 feet, but west of Moravia and east of the Cazenovia quadrangle it is limited to the basal layers of the formation. From Tinkers Falls to Deruyter and Arab Hill its vertical range is 1 to 6 feet above the *C. aurora* Zone.

The *L. cf. L. carinatum* Zone extends from June's Quarry to Deruyter and Arab Hill in the upper few feet of the section. It is characterized by the little coral *L. cf. L. carinatum*. Few other fossils are known for this zone except the trilobites *Phacops rana*, *Crypheus boothi tulliensis*, and *Proetus rowi*.

The West Brook Shale Member is low in the section at West Brook, but in the vicinity of Georgetown it is near the top. It has been identified as far west as Deruyter. It yields eight species of crinoids, the first crinoids reported from the Tully, and numerous species of bryozoans, brachiopods, and lamellibranchs. The gastropods and cephalopods are



also well represented in its faunal list. The new species, *Cyphaspis tulliensis*, is found only in this member.

A bed of nodular limestone near the top of the section at Deruyter and Arab Hill has an abundance of fossils, the most common of which is *T. carinatus*. This bed has been designated the *T. carinatus* Bed.

It is concluded that at the close of the stage during which the Moscow Shale was deposited, sedimentation continued in the narrow channel near the center of the Tully basin. In this channel the shaly beds of the *C. aurora* Zone were deposited. A greater inflow of sea water, which would account for the precipitation of calcium carbonate, spread *C. aurora* throughout the basin and brought another immigrant species, *H. venustula*, which received the same wide distribution. *H. venustula* did not persist beyond the deposition of the basal layers of the formation except in the vicinity of Tully. Near the close of the Tully age the Genesee type of sedimentation began to replace the limestone in the region west of what is now Cayuga Lake, and in the region that is now covered by the Tully and Cazenovia quadrangles there was an abundance of the little coral *L. cf. L. carinatum*.

#### DESCRIPTIONS OF NEW SPECIES

The four new species described are *Cyphaspis tulliensis*, *Bronteus*, *Hyolithes inequastriatus*, and *Delthyris pauloformus*.

A new variety, *Crypheus boothi tulliensis*, is described, and the descriptions are accompanied by plates illustrating not only the new variety and the new species, but other species reported in the faunal list that are of particular interest.

## GROUND WATER IN THE PALEOZOIC ROCKS OF NORTHERN ALABAMA<sup>1</sup>

By WILLIAM DRUMM JOHNSTON, JR.<sup>2</sup>

The thesis is a study of the occurrence of ground water in twenty-five counties in the northern part of Alabama lying within the outcrop area of Paleozoic rocks.

The rocks range in age from the Cambrian, or possibly the Algonkian, to the lower Cretaceous. Many lithologic types are represented; among them are marble, limestone, dolomite, clay, shale, phyllite, sand, sandstone, quartzite, and schist. The altitude of the rocks is extremely variable—flat-lying beds, various types of folds, and overthrusts are structural features which present individual ground-water problems.

A physiographic subdivision of the area is presented which follows Fenneman's classification of the major divisions of the United States. The writer has adopted the term *district* for definite physiographic units whose order is below that of Fenneman's *sections*; and those districts in Alabama lying within the Highland Rim, Cumberland Plateau, Valley and Ridge Province, and Piedmont Upland are briefly defined.

The source, storage, and movement of ground water in the major lithologic types of Alabama rocks is considered in some detail. A series of water-table measurements continued during a two-year period are compared with the precipitation record to illustrate the relation existing between rainfall and recharge of the water table.

A body of new data on the distribution of cavities, rate of solution and redeposition of limestone, and the formation of sinks is presented. Quantitative studies of the rate of discharge of two large limestone springs were made on records obtained with automatic water-height recorders. Twenty-two caves in limestone were explored and mapped. Those containing underground streams gave valuable information concerning the behavior of limestone drainage.

A number of artesian areas are described, and the relation of ground water to faults, as revealed in iron and coal mines, is discussed.

The waters of the area vary greatly in the amount of mineral matter which they carry in solution. In some the mineral content is very low—25 or 30 parts per million; a few contain several thousand parts per

<sup>1</sup> The complete study, the introductory and summary chapters of which comprise the thesis, was published in 1933 by the Geological Survey of Alabama as Special Report No. 16, vol. 1 (text), xvi, 407 pp., 54 figs., 23 pls., folded map; vol. 2 (well and spring data), 48 tables, index.

<sup>2</sup> B.S. 1921, University of Chicago; Ph.D. conferred February 22, 1933.

million. Usually 400 to 500 parts per million is large for the area. The chemical character of the dissolved mineral matter varies with the kind of rocks, and a number of formations yield waters of definite mineral composition in varying dilution. Conclusions regarding the quality of water are based upon analyses of 222 water samples collected by the writer and analyzed by C. S. Howard and Margaret D. Foster of the U.S. Geological Survey. Base exchange by clay minerals of the montmorillonite type is of frequent occurrence in a number of the shale formations.

The final section of the thesis is devoted to the consideration of the areal distribution, lithologic character, and water-bearing properties of the thirty-four different formations occurring in the area.



## A STUDY OF FACTORS ENTERING INTO THE DETERMINATION OF HANDEDNESS

By MARY MAE BARKULOO ROOS<sup>1</sup>

The purpose of this investigation was to determine the extent of preferential dextrality, to carefully investigate some important theories of handedness, and to impartially and objectively gather facts regarding handedness which could be analyzed statistically and interpreted in the light of that analysis. The intent of the study was that of a fact-finding investigation.

Extensive reading of various handedness reports brought to light the fact that the majority of studies had been made on selected groups with the result that, in the minds of educators and perhaps also the general public, the incidence of left-handedness was beginning to be coupled with speech disturbances and congenital disorders of the nervous system. The basic hypothesis of these studies seemed to be that simultaneous appearance justified the conclusion of relatedness. Such findings inspired a desire to make a fact-finding study on the incidence and degree of handedness in four representative cross sections of the normal group, that is, infants, kindergarten children, sixth-grade children, and adult college students. The results of such a study, it was thought, should indicate the effect of living in a right-handed world on the dexterity of an individual; that is, if handedness were greatly influenced by environment, the infant group should be found to be almost wholly ambidextrous and the adult group almost wholly right-handed. On the other hand, if native handedness were determined by heredity, the infant group along with each of the other groups should show about the same degree of right-handedness.

Before comparisons could be made it was necessary to devise a test for handedness, and this test had to be one that could be used on all or nearly all groups. For this purpose the tapping test was decided to be most useful.

The actual experimental set-up for the tapping test is a very simple one, consisting of four dry-cell batteries, a telegraphic key, an electric counter, and a stop watch. Each subject was allowed to tap exactly sixty seconds with each hand. Care was taken to make sure that the subject understood what was expected of him before the actual tapping began. In order that the subject should not know that his handedness was being tested, and, hence, definitely try to prove himself as having one or another form of handedness, he was told that the test was one of reaction time. He was

<sup>1</sup> A.B. 1925, University of Texas; Ph.D. conferred February 22, 1933.



inspired to tap with a maximum effort in each hand in order that he might prove himself to have a high reaction time.

The results of this maximum tapping record for each hand were used to define what might be termed a handedness ratio. This was defined to be the ratio of the right-hand count to the left-hand count. Perhaps one of the greatest advantages of such a ratio is that it describes always the relationship between the two hands; not the speed of reaction time, but the simple degree of handedness for each hand.

Using this tapping test for handedness, it was found for the kindergarten, sixth-grade, and college groups that human beings are not simply right-handed or left-handed; they are a given number of degrees right-handed and a given number of degrees left-handed, as determined by the tapping-test handedness ratio. Thus handedness, like height of individuals and other characteristics, can be represented by a continuous function within limits.

The functions describing the distribution of handedness for the three groups just mentioned were very similar. The mean of the distributions for the kindergarten, sixth-grade, and college groups were found to be, respectively,  $1.110 \pm .002$ ,  $1.12 \pm .006$ , and  $1.091 \pm .0047$ . The standard deviations for the three groups were found to be, respectively,  $.127 \pm .004$ ,  $.1530 \pm .0045$ , and  $.138 \pm .0033$ , whereas the modes were, respectively, 1.00, 1.10, and 1.05. The distribution functions resembled the normal curve of error.

Only a moderate amount of statistical analysis was necessary to indicate that the chances were strongly in favor of the assumption that the three distributions differed only by amounts that might be expected by the theory of sampling. In other words, these studies indicated that the distribution of degrees of handedness is the same for the kindergarten, sixth-grade, and college groups.

For the infant group, four prenatal factors which might be related to handedness were investigated, the first of which was the dominant position of the foetus before birth and the presentation position of the child at birth. The other prenatal factors investigated were the basal metabolism of the mother during the pregnancy, the birth weight of the child, and the heredity of the child. These factors were investigated to determine whether they were related to handedness or not.

Access was had to the birth records of Dr. H. W. Lawson, former Professor of Obstetrics at The George Washington University, and of Dr. Howard Kane, Professor of Obstetrics at The George Washington University. At the request of Dr. F. A. Moss both of these men had kept detailed records of the position of the foetus during the last part of pregnancy. A total of 486 cases were studied in an endeavor to ascertain the relation, if any, of the presentation position of the foetus to dextrality.

The manner of testing for handedness in this infant group was neces-

sarily different from the tapping test. In most instances it was necessary to depend upon the telephone report of the mother regarding the handedness of the child, but a sufficiently large group were actually tested by a method which was quite objective in all its phases except one to afford a standard of comparison for the subjective judgments given by the mothers. The subjective element in this test was introduced by having as many testers as there were children tested; in other words, each mother tested her own child. The mothers were given the following instructions on postcards:

1. On each of four days offer your child ten times each day some one object he desires.
2. Hold the desired object directly in front of your child so that no preference can be given either hand.
3. Record on the accompanying card the number of times your child reached with the right hand and the number of times with the left.

It was found that 82.2 percent of the 138 cases for which cards were available were right-handed babies, and that this number agreed with the percentage of right-handedness in the three groups previously mentioned. For the entire group of 486 cases, represented by the 138 cases tested and 248 cases for which mothers reported subjectively, the percentage of right-handed babies was 81.6.

The Right Occipito-Anterior and the Left Occipito-Anterior presentation positions included 85.6 percent of all the babies tested. The Right Occipito-Posterior presentation position accounted for an additional 7.4 percent of the cases. Five other types of presentation position accounted for the remaining 7.0 percent of the cases. For the first three presentation positions named and for the other five, the percentages of right-handed babies were, respectively, 80.7, 82.1, 75.0, 80.0, 83.1, 85.7, 100.00. If one takes into account the sizes of the samples, it follows that the chances are in favor of the assumption that the percentage of right-handed babies to be expected is constant for the eight presentation positions and is approximately 81.6. In other words, although the percentage of babies that have the presentation in which the left arm is in a fixed position and the right arm free for the period of three to six weeks before birth, during which the foetus is relatively fixed, corresponds roughly with the percentage of right-handedness reported in adult life (by a marking test or similar test of acquired ability), this is purely an accident. No relatedness whatever is indicated.

A study of the basal metabolism of the mother and its relation to right- and left-handedness, if any, was made to investigate the hypothesis that if the prenatal environment was a determinant in preterentia handedness, the child of a mother with a tendency toward hyperthyroidism might show a tendency toward ambidexterity, whereas the child of a mother with a tendency toward hypothyroidism might be inclined to be



either definitely right-handed or definitely left-handed. The theory back of this hypothesis was that the child of the hyperthyroid mother might be inclined to move about a great deal, and thus to move its arms both more vigorously and more often than the child of the hypothyroid mother.

For the 156 cases for which basal metabolisms of mothers were available, it was found that the average basal metabolism of the mothers of ambidextrous children, 6 cases, was  $-7.3$ ; of mothers of left-handed children, 25 cases, was  $-5.8$ , and of the mothers of right-handed children, 125 cases, was  $-3.7$ . From these results it would seem that the basal metabolism of the mother and the handedness of her child are not related.

Since it is known that a large child has a fixed position longer than a small one, the third prenatal factor to be investigated was birth weight. There were found to be twenty-three left-handed cases in a total group of 145, or 15.8 percent. Seven of these twenty-three had birth weights below the average of 3,866 grams, or, that is, 30.4 percent. Seventy of the 122 right-handed babies had birth weights below the average, or, that is, 57.3 percent. There may be some relationship between low birth weight and left-handedness, but it would seem that the seven cases below the average birth weight constitute too small a sample from which to draw conclusions regarding the 26.9 percent difference between the percentage of left-handed children below the average birth weight and the percentage of right-handed children below the average birth weight.

The existence of left-handedness in the blood line was checked in 330 cases. Left heredity (mixed) was reported by 136 and right heredity by 194. It was found that 50, or 36.8 percent, of the 136 cases were left-handed, as contrasted with 16, or 8.3 percent, of the 194. It would seem, therefore, that there may be a hereditary element involved here.

It was not possible to check the hereditary element for the kindergarten group. This element was, however, checked for the sixth-grade and college groups, and results substantially agreeing with those reported for the infant group found. It should be pointed out, however, that the percentages of right-handed heredity reported for the sixth-grade and college groups were, respectively, 76.3 percent and 74.1 percent, as compared with 58.9 percent reported by the mothers of the infants in the infant group. This difference is probably due to the fact that the sixth-grade and college subjects reported for themselves and in most instances their familial experience included only their parents, whereas in the infant group the mother reported for the child.

Finally, degree of handedness was correlated with intelligence for the sixth-grade, college, and kindergarten groups. For the last two groups Pearsonian correlation coefficients of absolute value less than .15 were obtained, so that no relationship was indicated. In the sixth-grade group a correlation of  $.6103 \pm .0248$  was obtained. An analysis of the data shows, however, that the greatest part of this coefficient is contributed by the

tenth decile or extremely right-handed group, for which the average intelligence quotient happened to be 123, Simon-Binet scale. In view of the results obtained for the other groups, it would seem that the apparent relationship, although that indicated is not a strong one, is due to sampling.

### CONCLUSIONS

It would seem that there are five definite conclusions that can be made from the results of the foregoing investigation:

1. Handedness is a trait that is manifested in varying degrees in different individuals, and the age of the subjects does not affect the degree of its manifestation, for the distribution of the degree of handedness may be represented by a continuous function which is somewhat like the normal probability function, but slightly skewed to the left; the mean of this distribution is  $1.094 \pm .003$ , and the standard deviation is  $.146 \pm .002$ . The extremes of the curve approach the handedness axis asymptotically.
2. Handedness and intelligence are probably unrelated. Therefore, to the extent that intelligence and general inferiority, speech disturbances, and congenital disorders of the nervous system are related, these undesirable qualities probably are not related to handedness.
3. Some of the above data would tend to support the theory that handedness is an inherited quality, for, first, among the four samples—the infant, the kindergarten, the sixth-grade, and the college groups—the statistics of the mean, the mode, and the standard deviation do not vary more than might be expected by the theory of sampling; and, secondly, there are significant differences in the percentage of subjects both right- and left-handed who have a right- or left-handed heredity.
4. Handedness is not affected by the prenatal environment as it is determined by the dominant position of the foetus, or by the presentation position of the child, or by the basal metabolism of the mother, or by the birth weight of the child.
5. About 81 percent of people show greater native ability with their right hand than with their left hand as indicated by the tapping test, whereas approximately 96 percent learn to use their right hand preferentially as indicated by the number-marking test. In other words, 75 percent of those who have greater native ability in their left hand as indicated by reaction time (tapping test) develop preferential use of the right hand, presumably as a result of living in a right-handed world.



## AN ANALYSIS AND EVALUATION OF COURSES IN THE TEACHING OF SCIENCE

By HENRY HARPER REOHRER BRECHBILL<sup>1</sup>

Special-methods courses in the teaching of the natural sciences are found in the teacher-training curricula of many universities and colleges in the United States. The designation, content, and purposes of such courses vary, but in general they treat of the principles, methods, and problems of teaching one or more of the branches of science. It is with these courses that this study deals.

Three fundamental problems are attacked: (1) To what extent are courses in the teaching of science or of any particular science offered in college and university curricula for the training of science teachers? (2) What topics are treated in such courses? (3) What is the relative value to teachers of these topics and the value of the course as a whole in comparison with other education courses?

Besides these three problems, the solutions of which constitute the main objectives of this study, a number of secondary or incidental findings are made, among which are the following: the division of science-teaching courses among the particular science fields; the names used to designate courses; the credit allowed; the departments by which courses are offered; the practical and theoretical value of the various topics; the effectiveness of instruction as indicated by teachers' ability to recall topics; a comparison of the attitudes toward such instruction by teachers of long and short experience; the number of different science subjects taught by one teacher; and the extent to which science teachers have been trained in courses in science teaching.

Data for determinations relating to the status of science-teaching courses in college and university curricula were obtained from a study of the catalogues of 138 colleges and universities. Of this number, 61 percent offer one or more courses each in science teaching. Of the 37 institutions enrolling more than 3,000 collegiate students in their regular September-June sessions, 78 percent offer such courses.

Of 150 courses offered by 84 institutions, 38 are devoted to the teaching of science in general. The others are devoted to the teaching of special divisions of science as follows: botany, 10; zoology, 9; physiology, 2; biology, 27; chemistry, 21; physics, 19; physics and chemistry, 11; general science, 11; geography, 2. This distribution of offerings contrasts with the distribution of courses which teachers have taken. One hundred and

<sup>1</sup> A.B. 1911, Blue Ridge College; A.M. 1917, University of Pittsburgh; Ph.D. conferred June 7, 1933.

ninety courses reported taken by teachers were divided among the various fields as follows: science, 50.4 percent; botany, 2.1 percent; zoology, 2.5 percent; biology, 9.5 percent; physics, 6.3 percent; chemistry, 15.3 percent; general science, 15.3 percent; geography, 0.5 percent.

Instruction in science teaching is in some institutions given by instructors in science departments, in others by education instructors. Of 146 courses, 68 are given by education instructors and 78 by science instructors. However, when only the 47 teaching courses in science in general and general science are considered, we find them divided between education and science instructors in a ratio of 40 to 7. Teaching courses entrusted to departmental instructors are more likely to be specialized than courses offered in departments of education.

Great variation exists in the naming of courses in science teaching. Sixty-seven different titles are used to designate 150 courses, among which 45 titles are used only once. No single title is used more than 11 times. When minor differences in titles are disregarded, four types are recognizable: "teaching" courses including 63.3 percent of the whole number; "methods" courses, 17.3 percent; "teachers" courses in subjects, 10.7 percent; and miscellaneous titles, 9.7 percent. For the sake of uniformity, the title, "The Teaching of Science" (or Biology, etc.) is recommended.

Credit for courses in teaching of science or any special science varies from 1 to 8 semester-hours, with an average of 2.3 semester-hours. This is less than the prevailing recommendation of experts in this field<sup>1</sup> and less than would seem to be indicated by the extensive content approved by teachers as reported later in this study. The recommendation is four hours.

Of 200 teachers who replied to a questionnaire, 71 percent have taken a course in the teaching of some field of science. Of the courses taken by these teachers, 63.5 percent were of graduate grade, while 31.7 percent were senior courses and 4.8 percent junior courses. When only teachers of less than five years' experience are considered, their science-teaching courses are distributed among graduate, senior, and junior years as 35.4 percent, 60.4 percent, and 4.2 percent. The larger percentage of senior-year courses among younger teachers shows an increasing tendency to offer such courses as a part of the undergraduate training of teachers.

#### THE ANALYSIS OF COURSES INTO TOPICS

The initial step in the analysis of the courses into topics depends upon the assumption that books designed and extensively used as basic texts for any type of course deal generally with the content of such courses. On this extension all books published in America since 1912, eight in

<sup>1</sup> National Society for the Study of Education, *Thirty-first Yearbook*, pt. 1, p. 342.

number, were analyzed for topical content. This topic list was supplemented by instructors who give such courses and by a checking of it against the teacher activities listed in the Commonwealth Teacher-Training Study. A list of 191 topics and 12 main divisions was thus obtained.

#### PROCURING OF DATA IN THE STUDY OF THE TOPICS

The topics were rated for (1) prominence in existing courses and (2) value to science teachers. Data for these studies were obtained from three sources: the books analyzed, instructors giving such courses, and teachers of high-school science.

In analyzing the books, the number of pages devoted in each book to each topic was noted, and the percentage of all books devoted to each topic was calculated.

The entire list was sent to nearly a hundred instructors in universities and colleges who give courses in science teaching to be checked. Forty-four responses were received showing, among other matters, the topics which these instructors actually include in their courses. These replies were assembled into frequency tables.

The same list was sent to teachers of high-school science, of whom more than two hundred responded. They checked each topic according to five independent criteria: (1) if they remembered it; (2) if they found it practically useful; (3) if they found it theoretically useful; (4) if they thought it should be included; and (5) if they thought it should be excluded.

Tables were assembled showing the frequency of checking of each topic for each criterion.

#### PROMINENCE OF TOPICS

The relative prominence of the topics in existing courses was determined from three criteria as follows: (1) prominent topics are discussed extensively in textbooks; (2) prominent topics are included in the courses of many instructors; (3) prominent topics are remembered by students who take the course. An index of prominence for each topic was computed, based upon these criteria, and all topics were arranged in the order of these indices.

#### EVALUATION OF COURSES AND OF TOPICS

All teachers to whom the check list was sent were also requested to indicate the five education courses which they found of greatest value. These ratings were averaged. Courses rated by thirty or more teachers, together with the average rating assigned to each, are as follows:



Course	Number of teachers reporting	Average rating
Science Teaching.....	125	1.82
General Methods.....	83	2.14
Educational Psychology.....	90	2.60
Principles of Secondary Education.....	38	2.82
Educational Measurements.....	39	3.36
History of Education.....	31	3.77

The most significant finding of the study is the table of topics arranged in the order of frequency of checking to indicate that, in teachers' judgment, the topic should be included. This table indicates a high degree of teacher approval for many topics dealing with methods of teaching. Within this field what is known as "unit method", with content organized for demonstrating it, is approved. In comparison with it, the "project method" is less favored, although rated above the low quartile. Other aspects of methods rated high are laboratory methods, assignments, characteristic difficulties, supervised study, remedial instruction, special devices such as visual aids, clubs, etc., use of recitation and discussion, and the adaptation of all methods to the special subjects. The aims of science teaching constitute topics highly approved, including command of information and its sources, power to think, attitudes, and habits. Textbooks, reference books, and professional literature are well favored topics, as are also those which deal with testing in relation to both its purposes and technics. Teachers approve the study of the fundamental principles of the science subjects and the selection and organization of subject matter about those principles.

Topics dealing with science teaching in Europe, with the status and history of science or of science teaching, and with the problems of science teaching on school levels above or below the high school are rated very low in teacher approval.

A satisfactory degree of reliability for the rank order of topics in teacher approval is revealed by a split group correlation of  $.90 \pm$  (S.E.)  $.02$ . This same rank order was correlated with the order of approval of sixteen selected science teachers of certified competence, professional attitude, and sound judgment. A Spearman correlation coefficient of  $-.25 \pm$  (S.E.)  $.036$  was obtained. This correlation, while not high because of the small number of judges in the special jury, is sufficient to indicate that the judgments of the whole number of teachers is in substantial agreement with the judgments of teachers of recognized professional standing.

The order of prominence and the order of teacher approval of topics show a correlation of only  $.577 \pm$  (S.E.)  $.051$ , indicating that the content of existing courses in science teaching does not closely correspond to the content of greatest value to science teachers.



The order of topics when arranged according to the frequency with which teachers recognize them to be of practical value in teaching, corresponds closely with the order of general teacher approval. The order of frequency of recognition for theoretical or thought value corresponds much less closely. Between the rank of topics arranged in order of practical value and in the order of theoretical value there seems to be a very slight positive correlation.

The topics were also evaluated by relating them to the teacher activities enumerated in the Commonwealth Teacher-Training Study.<sup>1</sup> The following topics were rated much higher by this standard than by any other used: class management, personal qualifications of a science teacher, teachers' community relations, controlling general school behavior, and controlling conditions and practices affecting health.

The tables of the study are recommended as guides in the building or revision of courses in the teaching of science.

The highest and lowest quartiles of the most significant table follow:

TABLE XVI.—TOPICS IN THE ORDER OF TEACHER APPROVAL<sup>2</sup>

HIGHEST QUARTILE

Rank in teacher approval	Number and name of topic	Percentage of teachers who would—		Rank in prominence from table XII
		In-clude	Ex-clude	
1	113. Making assignments (M).....	88.0	2.5	10.5
2	110. Correlation of laboratory and class work (M).....	86.0	2.0	43.0
3	194. Periodicals and professional readings...	85.5	4.0	39.0
4	116. Supervised or directed study (M).....	85.0	5.0	46.5
5.5	60. Ability to find and use information (O)...	84.5	2.5	52.0
5.5	106. Laboratory method.....	84.5	4.0	2.0
8	75. Objectives of laboratory instruction...	84.0	4.5	28.5
8	131. Unit method—teaching cycle.....	84.0	2.0	22.0
11.5	142. Common defects in methods (teacher difficulties).....	84.0	2.5	94.0
11.5	51. Appreciation of environment as an aim...	83.5	4.0	14.0
	79. Pupil interest as a principle for the selection of subject matter.....	83.5	5.0	33.0

<sup>1</sup>W. S. Charters and Douglass Waples, *The Commonwealth Teacher-Training Study*.

<sup>2</sup>The main headings under which topics are subsumed in the Master Table are shown for topics whose meaning might not otherwise be clear by the following symbols:

- (N) The Nature of Science and Its Relation to Life.
- (M) Methods of Teaching Science.
- (O) Objectives (Aims, Values, Purposes) of Science Teaching.
- (S) Selection and Organization of Subject Matter.
- (L) The Laboratory, Its Equipment and Supplies.

TABLE XVI.—TOPICS IN THE ORDER OF TEACHER APPROVAL—Continued

## HIGHEST QUARTILE—Continued

Rank in teacher approval	Number and name of topic	Percentage of teachers who would—		Rank in prominence from table XII
		In-clude	Ex-clude	
11.5	86. Organization of subject matter into units.....	83.5	3.5	13.0
11.5	190. How to select textbooks.....	83.5	5.5	41.5
13.5	45. Specific content organized for demonstrating "unit method".....	83.0	3.5	105.5
15.5	57. Scientific thinking as an aim.....	83.0	3.5	5.0
15.5	171. Standardized tests.....	83.0	4.5	61.0
15.5	195. Collateral instructional material (Government bulletins, advertising, etc.).....	83.0	5.0	8.0
20	28. Relation of science to the development of industry.....	82.5	5.5	46.5
20	115. Demonstration (M).....	82.5	3.5	24.0
20	125. Treatment of pupil errors.....	82.5	4.5	117.0
20	175. Examinations—their purposes and uses.....	82.5	5.0	35.0
20	180. Personal qualifications of a science teacher.....	82.5	6.0	78.5
23.5	146. Providing for individual differences.....	82.0	3.0	58.0
23.5	193. Library books.....	82.0	3.5	50.0
26.5	117. Field trips.....	81.5	5.5	41.5
26.5	126. Corrective or remedial instruction (M).....	81.5	4.0	125.5
26.5	145. Visual aids (M).....	81.5	4.5	72.0
26.5	172. Content and construction of examinations.....	81.5	7.0	27.0
29.5	58. The problem-solving type of thinking (O).....	80.5	5.0	28.5
29.5	78. Principles for the selection of subject matter.....	80.5	4.0	6.0
31.5	114. Library or collateral reading (M).....	80.0	5.5	77.0
31.5	173. Objectivity of tests.....	80.0	6.5	59.5
35.5	85. Difficulty of course to vary with pupils' increasing abilities (S).....	79.5	5.0	51.0
35.5	104. Question-and-answer method (of class discussion).....	79.5	8.0	25.5
35.5	109. Pupils' notes or write-up of laboratory and other exercises (M).....	79.5	5.0	31.0
35.5	144. Science clubs, scrap books, collections, and similar aids to interest (M).....	79.5	5.5	62.0
35.5	178. Scoring and grading test papers.....	79.5	7.5	83.5
35.5	182. Preparation of science teachers.....	79.5	8.0	36.0
40.5	88. Interdependence of units (S).....	79.0	6.5	75.0
40.5	127. Obtaining attention and cooperation (M).....	79.0	8.0	133.0
40.5	133. Presentation of material or unit to class (M).....	79.0	2.5	101.5
40.5	138. Teaching how to think scientifically (M).....	79.0	4.5	21.0
44.5	123. Making lesson plans (M).....	78.5	6.0	64.5
44.5	143. Providing motives or interest (M).....	78.5	3.0	81.0

TABLE XVI.—TOPICS IN THE ORDER OF TEACHER APPROVAL—Continued  
HIGHEST QUARTILE—Continued

Rank in teacher approval	Number and name of topic	Percentage of teachers who would—		Rank in prominence from table XII
		In-clude	Ex-clude	
44.5	160. Home-made and locally obtained equipment—construction, procuring, and cost (I.)	78.5	6.0	86.0
44.5	174. Validity of tests	78.5	7.0	83.5
48.5	54. Development of basic scientific concepts as an aim	78.0	5.5	37.0
48.5	89. Comprehension of a principle as the outcome of a unit (S)	78.0	7.5	74.0
48.5	136. The recitation (M)	78.0	3.0	94.0

## LOWEST QUARTILE

142.5	53. Acquisition of percepts (sense experience) as an aim	63.5	16.0	86.0
142.5	84. Dependent continuity of subject matter (S)	63.5	12.0	97.0
144.5	105. Textbook method	63.0	19.5	45.0
144.5	124. Timing instruction (M)	63.0	14.0	168.0
147.5	4. History of chemistry	62.5	14.5	152.0
147.5	12. Science as college-entrance requirements	62.5	20.0	99.5
147.5	46. Specific content organized for demonstrating other methods	62.5	17.0	149.5
147.5	191. Rating scales for selection of textbooks	62.5	18.0	139.0
150	90. Units in project form (S)	62.0	15.5	144.0
151	16. History and status of the teaching of the respective high-school sciences	61.5	21.5	15.0
152.5	3. History of physics	61.0	16.0	151.0
152.5	76. Comparison of opinions on the objectives of science instruction	61.0	16.5	111.5
154	112. Procedures incidental to various methods	60.5	11.5	70.0
155.5	67. Comparison of the aims of science teaching in the elementary school, junior high school, and senior high school	60.0	15.5	90.5
155.5	164. Planning rooms for laboratories	60.0	20.0	138.0
157.5	15. History of laboratory method	59.5	23.0	90.5
157.5	25. Effects on science teaching of standardizing agencies	59.5	17.0	121.5
159.5	128. General methods involving a technic of organization as well as method	58.5	6.5	54.0
159.5	139. Moral instruction (M)	58.5	19.5	163.0
161.5	18. History and status of the teaching of biology	58.0	22.5	118.0
161.5	66. Aims on different school levels	58.0	16.0	123.0



TABLE XVI.—TOPICS IN THE ORDER OF TEACHER APPROVAL—Continued  
LOWEST QUARTILE—Continued

Rank in teacher approval	Number and name of topic	Percentage of teachers who would—		Rank in prominence from table XII
		In-clude	Ex-clude	
164	19. History and status of the teaching of physics.....	57.5	22.5	103.5
164	157. Class management.....	57.5	6.0	164.0
164	161. Financing replacements.....	57.5	21.5	148.0
166	8. History and status of public high schools.....	57.0	23.0	107.5
167	47. Specific biographical material.....	56.5	20.0	162.0
168	159. Cost of equipment from supply houses (L).....	56.0	24.5	107.5
169	98. Selection and organization of subject matter for a unified course in high-school science (advanced general science).....	55.5	20.5	173.0
170	50. Discipline as an aim—principles of transfer of learning.....	53.5	31.0	44.0
171	82. College-entrance requirements as a determinant of subject matter.....	53.0	26.5	138.0
172	20. History and status of the teaching of chemistry.....	52.5	22.5	148.0
173	147. Methods appropriate to particular provinces of science teaching.....	49.5	15.5	3.0
174	100. Rating scales for selection of laboratory experiments.....	49.0	27.5	187.0
175.5	9. Enrollment of pupils in science subjects.....	45.5	25.0	96.0
175.5	29. Relation between wealth and education.....	45.5	30.0	178.0
177	13. History and status of science in elementary schools.....	44.0	34.5	171.5
178.5	24. Methods employed in European schools.....	43.0	34.0	190.0
178.5	91. Biographical units (S).....	43.0	29.5	184.0
180.5	21. Science teaching in European schools.....	40.0	40.0	154.0
180.5	155. Interpreting and abstracting technical studies in science education.....	40.0	30.0	174.0
182	149. Methods for science above high-school level.....	38.0	31.0	176.0
183	148. Methods for science below high-school level.....	37.5	35.0	177.0
184	183. Preparation of teachers for elementary science.....	36.5	34.5	180.0
185	118. Heuristic procedure (M).....	36.0	21.0	171.5
186	7. Academics in America.....	33.5	47.5	142.0
187	23. Curricula in European schools.....	32.5	44.0	183.0
188	197. Geography.....	29.0	37.5	189.0
189	6. Curriculum of the Latin grammar school.....	26.0	57.0	159.0
190	184. Preparation of teachers in European schools.....	24.0	49.5	188.0
191	22. Selective and competitive schools in Europe.....	14.0	60.0	191.0



## THE TRANSITION PERIOD IN AMERICAN INTERNATIONAL FINANCING: 1897 TO 1914

By PAUL DEWITT DICKENS<sup>1</sup>

The large volume of foreign lending by the United States during and since the World War has been considered by many in the United States as very remarkable. For decades, according to practically all who wrote on the subject, the United States had been dependent upon Europe for the capital with which to build its great national railway system and to develop its resources and industries. To change almost overnight from capital borrower on a large scale to capital lender to the extent of billions of dollars each year was an almost inconceivable feat, and yet, on the face of it, it seemed to have been accomplished.

This study had as its original stimulus the question, Was the general conception of the international financial position of the United States in 1914 correct? Soon, however, it seemed possible, with the material that had to be collected to answer the first question, to throw a little light on some related questions. Those questions had to do with the transfer of capital internationally. In particular, such questions as the following seemed susceptible to further analysis on the basis of the data brought together in this thesis: What relationships are there between capital movements and the foreign trade in commodities? Does trade follow the loan? What relationships are there between capital movements and gold movements? Is gold the principal and an essential corrective of disequilibria in balances of payments?

The period from 1897 to 1914, inclusive, was decided upon as providing the best opportunity for a study of those questions. That decision was reached, first, because the international movement of capital had, at different times between those dates, attracted public attention, with the result that considerable data were available; secondly, because those years were not upset by any major political event; thirdly, because that period covered business activity in all its major stages; and, fourthly, chiefly, because it immediately preceded the beginning of the so-called transformation from debtor to creditor.

A careful study of the facts regarding the flow of capital to and from the United States was the first necessary step. Inasmuch as there were no statistics available as to the annual movements of capital, it was necessary to compile such data. Schedules of foreign capital issues sold in the United States and American capital issues sold abroad were prepared.

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They cover about sixty-five pages in appendix A. It was also necessary to collect all available data regarding the investments of industrial and commercial corporations—American abroad and foreign in the United States—because, although capital issues are the most obvious methods of increasing foreign investments, they are more easily reduced than direct investments and are, by the terms of the contracts, usually subject to repayment at the expiration of a term of years.

After preparing the data upon which estimates of the annual movements of capital could be based, all the available estimates and data regarding American investments abroad and foreign investments in the United States were collected and analyzed. Then, on the basis of those estimates and the data that had been collected regarding the details of the flow of capital, the yearly volume of the outward and inward flows of capital affecting the United States was estimated. The adequacy of the annual estimates was then checked by constructing annual balances of payments. Inasmuch as the uncalculated residuals in those annual balances proved susceptible to explanation to a reasonable degree, the estimates of the capital movements were deemed to be sufficiently accurate for the purposes of analysis along the lines indicated above.

On the factual side this research has shown three things: first, American investments in foreign countries increased with much greater rapidity from 1897 to 1914 and reached a higher total at the end of the period than had been estimated before; secondly, foreign investments in the United States increased rapidly, but the increase had been greatly overestimated by many writers; and, thirdly, largely as a result of the above findings, the United States is shown to have been a net exporter of long-term capital when the eighteen years are taken as a whole.

American investments in foreign countries increased from about \$450,000,000 in 1897 to \$2,275,000,000 in 1914. Before 1897 almost all the investments had taken the form of the migration of industrial capital. In 1899 a real start was made in the issuance of foreign loans, when American bankers participated with European houses in the flotation of a large Mexican Government conversion issue. From that time on the capital market in the United States absorbed each year some foreign issues, and the geographic diversification of those issues became wider with each succeeding year. True, in the end the greatest growth was shown in direct investments because of the characteristics of portfolio investments that were mentioned above. The experience of those pre-war years in underwriting foreign securities was later to be very useful, since it prepared not only the American bankers but also the American public for the task they were later to undertake.

Foreign investments in the United States increased from about \$2,800,000,000 to \$3,000,000,000. On June 30, 1914, they probably amounted to close to \$4,400,000,000. The sale of American securities in England was

the principal means of increase during those years. It was not an extensive entrepreneur-interest in American industry that was being acquired. A study of the tables in chapter IV shows the reason why other estimates had been higher than those here given. One of the principal reasons was that, although the annual flotations in Europe after about 1904 were very large, a great amount of them were short-term issues which, together with those issued for refunding purposes, reduced the net increase of foreign investments more than had been previously supposed.

Having shown by a detailed and careful analysis of all the data available that American investments abroad increased \$1,825,000,000 during the eighteen years under study, while foreign investments here increased only \$1,100,000,000, it was, of course, proved that the United States had been a net exporter of capital on a fairly large scale several years before the World War thrust upon it the task of financing a world whose capital resources were sadly depleted. **The period when the United States was a net exporter of capital occurred from 1897 to 1905, inclusive.** It was not induced, as some earlier years of a net export had been, entirely by the stoppage of new foreign investments and the withdrawal of the old. Rather, it was characterized by a rush of American capital and enterprise into foreign countries and by the repurchase of previous foreign investments here. Following 1905 this country reverted to the position of net borrower until 1914, with one exception—the year 1908. The inflow of capital from 1906 to 1913, inclusive, was seldom very large and was frequently exceeded by the net annual interest and earnings due to foreign investors in American bonds and enterprises. Those later years were notable, also, for the rapid growth of tourist expenditures and immigrant remittances abroad. There can be little doubt but that the constant and large excess of merchandise exports over imports was made possible, at least in part, by the exportation of purchasing power which took place in those forms.

The first two chapters of this study were largely introductory. Chapter I explained the technique of foreign investments. It served a dual purpose: first, it presented some facts of historical significance by outlining the relationships between American and European investment bankers; and, secondly, it threw a practical light upon some of the more theoretical considerations taken up in chapter VII. The second chapter reviewed the data regarding the balance of payments of, and the inflow of capital to, the United States from 1787 to 1896. The purpose of this review was to provide a background for the chapters to follow. Several trends in American financial transactions were noted that were later shown to have continued and to have become of the greatest importance. Reference is made particularly to the continuous and rapid growth after the Civil War of tourist expenditures, immigrant remittances, and the net ocean shipping bill. All these items involved cash payments to foreigners. They con-



tributed to and were themselves contributed to by the large excess of merchandise exports.

Analysis of the annual balances of payments was next undertaken with a view to determining what relationships might be found to exist between the various items of which the balances of payments were composed. Chapter V was taken up with a general description of the international financial transactions of the United States, in order to determine what trends were discernible and how they fit into the whole. Inasmuch as no effort was made to calculate all the transactions that entered into each year's international dealings, and as there was a considerable margin of error in those that were calculated, the accounts did not balance in any year. That was to be expected and even hoped for. Still, it was hoped that that "balance" would be reasonable and subject to explanation in a general way. This proved to be the case. It was found, in that attempted explanation, that the movement of short-term capital had, even at that early date, become very important in balancing each year's accounts.

Methods had to be devised by which the relative importance and trends of each type of international transaction could be more easily and accurately visualized. That was done, first, by showing the proportion of each major group of items to the whole and, secondly, by showing the changes, by annual and biennial periods, of each group of transactions from the previous annual and biennial periods. The results of those analyses pointed to the need of comparing the combined merchandise and gold movements with the combined estimates of the capital and miscellaneous invisible items. Those comparisons were made according to the second method stated above and also by constructing an index of each combined group, using the 1905-6 average as the base.

By the methods just described it was found that no clear relationships existed between the merchandise balance and the balance of the gold movement, nor between the gold movement and the net capital exports. Gold flowed in greater quantities as a result of banking or political disturbances than as a result of balance-of-payments influences. When one considered a period of several years, the net international flow of gold seemed too small to accomplish the purpose of bringing about long-term adjustments to disturbing factors in the international financial accounts of the United States.

It was found that some relationship did apparently exist between the merchandise balance and capital movements. That relationship was most apparent when the ratio of the merchandise-export balance to the total foreign trade was calculated. It was found that during the years of a net capital export the excess of merchandise exports was 21 percent of the total foreign trade, while for the period of capital imports the excess was only 13 percent of the total. The data were not sufficient, however, to decide or even throw much light on the question, "Does trade follow the



loan?" The balance of payments proved to be an excellent means of setting forth static relationships, but very poor as regards the more dynamic ones.

The results of the comparison of the combined merchandise-gold movements and the capital-invisible groups were more satisfactory. In the writer's judgment those results were more than the reciprocal relationships of the two parts of a whole. They showed similar trends and, to a remarkable extent, corresponding fluctuations in point of volume. Those facts were most clearly shown by the index of the two groups of transactions. With the results of those analyses and the descriptive and statistical data collected incidental to the research as the basis, the attempt was made in chapter VII, first, to evaluate a few of the essential parts of the classical theory of international prices; secondly, to present certain emendations to Cairnes's three loan stages in the life history of an industrial colony, especially from the viewpoint of the effect of the international movement of capital; thirdly, to analyze the cause-and-effect relationships between the foreign trade in commodities and capital movements; and, fourthly, to express the writer's conviction, which grew steadily stronger as this study neared completion, that no one mechanism is necessary nor satisfactory for the explanation of the adjustment of the international balances to disturbances and particularly those disturbances arising out of capital movements.

It was pointed out first that one of the primary bases of the classical theory, namely, the relative immobility internationally of capital and labor, was not supported either by the statistics of immigration and capital issues nor by the facts of the organization of the capital markets in England and France. Another basic premise of the theory, namely, the price-goods-specie-flow mechanism, depending as it does on the validity of the quantity theory of money, was open to serious question. In the first place, the gold flows were inadequate for the purposes of adjustment; secondly, the organization of the American monetary and banking system was such that it was not sensitive to the international movements of gold; and, thirdly, the effects of a given stimulus were not predictable and occasionally were such that they complicated rather than remedied the disturbance to the equilibrium.

Cairnes's theory was criticized, first, as being oversimplified, secondly, as being based too exclusively on the price-goods-specie-flow mechanism, and, thirdly, because it placed too great emphasis on capital, goods, and gold, with the result that the invisibles were neglected. Furthermore, whatever consideration he gave to the invisibles was based on the relations between those items and the others that were, and still are, typical of the British balance of payments.

The analysis of the cause-and-effect relationship between the capital movements and merchandise trade utilized trade statistics and the

analysis of the technique of foreign investment. The conclusion reached was that there is a reciprocal relation, both direct and indirect, between them, so that at different times, and occasionally at the same time, any transaction may be both resultant and causal.

Finally, again on the basis of induction from the data analyzed, stress was placed on the fact that each transaction in the balance of payments influenced every other type of transaction. Still more, however, the influence of factors outside the balance of payments was emphasized, and the opposite effects that might come from the same factor were illustrated. All of this led to the conclusion that the stress given by many scholars to the search for a mechanism of adjustment had tended to obscure the greater truth that most basic forces affecting the international flow of values stimulate their own corrective reactions.

## GEOLOGY OF THE NORTH AND SOUTH McCALLUM ANTICLINES IN NORTH PARK, JACKSON COUNTY, COLORADO

By JOHN CHARLES MILLER<sup>1</sup>

**North Park** is a roughly quadrangular basin about 1,000 square miles in area, almost completely encircled by mountain ranges, the peaks of which rise to 11,000 or 12,000 feet above sea level, although the comparatively flat valley floor varies in elevation from 7,900 to 8,300 feet. The Continental Divide marks the western and southern boundaries of the park. In the northeastern part of this geographic unit the North and South McCallum anticlines are situated, occupying an area about twelve miles long and two miles wide close to the Medicine Bow Range and about eight miles east of the town of Walden, Colo., on a branch-line railroad connecting with the Union Pacific system at Laramie, Wyo. The field lies approximately 180 miles northwest of Denver by road.

Along the borders of the park steeply tilted sedimentary formations are exposed, overlying the pre-Cambrian complex. A thin limestone of doubtful Carboniferous age is the oldest sedimentary formation exposed, and its outcrop is not continuous. Overlying this limestone in the order named are the Chugwater formation (Triassic? red beds); the Morrison formation (Jurassic or Cretaceous), the so-called Dakota sandstone, the Benton shale, the Niobrara formation, and the Pierre shale, all belonging to the Upper Cretaceous series. The valley is underlain by the less steeply dipping beds of the Pierre shale and younger Tertiary and Quaternary deposits.

Below the sandstone mapped by Beekly as Dakota, the writer collected several samples of a thin-bedded stratum tentatively identified as the equivalent of the Mowry shale of Wyoming. It is a reddish, sandy ash which at the point of exposure was five feet thick. The need of extensive stratigraphic work in this region is apparent, but this discovery indicates that the present producing oil and gas sand is the younger Frontier formation (Upper Cretaceous) and not the Dakota, as previously correlated. Therefore, if the entire thickness of the sand containing the large volumes of carbon dioxide can be penetrated, there is a possibility of a lower producing zone.

The fossils collected from the sandstones of the upper Pierre, which include the key bed used in the mapping of the structure of the McCallum anticlines, embrace several species not collected by Beekly and listed in

<sup>1</sup> B.S. 1916, Eng. of Mines 1921, University of Missouri; A.M. 1928, The George Washington University; Ph.D. conferred June 7, 1933.



U.S. Geological Survey Bulletin 596. However, the most prevalent Upper Cretaceous fossils are inoceramus and baculites.

Owing to the lenticular character of the beds exposed, these fossiliferous sandstones aided materially in the mapping of structure. Beekly and the geologists for one of the large oil companies mapped a major fault between the North and the South McCallum anticlines. The company's map showed a hinge fault with a throw of 1,200 to 2,500 feet, presumably based on correlation of coal in this vicinity and similar to Beekly's interpretation. Careful mapping of the underlying fossiliferous Pierre sandstones at this point eliminated all possibility of a fault of such significance.

The absence of outcrops of marine beds over a large part of the crest of these asymmetrical anticlines, due to a cover of partly consolidated gravel, and the steep dips along the east flanks, made it necessary to employ a method of obtaining contours different in principle from the "horizontal offset", "depth to bed", or the "ideal concentric fold" methods commonly used. Instead of one of these so-called mathematical methods, use was made of the geometry of the folds, and the spacing of contours was obtained graphically from eleven cross sections, assuming competent folding. In folds of the type considered, where a subsurface bed is economically important, consideration must be given to the location of the axial plane, particularly when the depth to that bed is approximately a mile, as in the present case. An assumption that the trace of the axial plane or surface is a straight line would lead to serious error, with consequent financial loss entailed by the drilling of unproductive wells. The method devised by the writer offers an approach to the representation of these structures without laborious mathematical computations within the limits of accuracy of surface observations. Moreover, the construction locates within reasonable limits the crest of the structure of the producing sand while taking account of squeezing and flowing of the incompetent beds to some extent. Briefly, the method consists of scribing the arcs formed by using as the centers the points of intersection of normals to the dips. Contours are obtained by constructing parallels to a level datum at equal intervals to scale intersecting the surface of the key bed or the producing sand. These points of intersection are then projected to the line of the cross section, after which they are transferred to the tracing in order to obtain the spacing of contours in a horizontal plane.

Two additional cross sections were extended to the outcrop of the so-called Dakota sandstone opposite each anticline in order to obtain the thickness of strata penetrated by the drill. These sections developed the fact that there was a marked thickening of strata between the key bed (upper Pierre) and the Dakota (?) sandstone, amounting to as much as 1,000 feet in a distance of seven miles. This convergence northward and perhaps the squeezing of shales toward the crest of the fold offers an explanation of the structural anomaly evidenced by the fact that the well



on the north anticline reached the carbon-dioxide-bearing sand (Dakota?) at approximately the same depth as the well on the south anticline, although the latter is approximately 1,000 feet higher structurally.

The presence of large volumes of carbon dioxide in association with petroleum rendered production of petroleum difficult and costly. An attempt was made to reduce high production costs by utilizing the carbon dioxide produced therewith in the manufacture of solid carbon dioxide. The process usually employed consists of a preliminary treatment of the carbon-dioxide gas from the well to remove petroleum carried in suspension. The temperature of the gas is then raised to  $400^{\circ}\text{F}$ . and passed through eight purifying towers connected in two series of four each. Granular bauxite in the presence of ferric oxide, ferric chloride, aluminum chloride, or sodium carbonate is used as a filtering medium to remove hydrogen sulphide, sulphur dioxide, and other impurities. Some of these towers may be eliminated if the gas does not contain sulphur compounds. From the purifying tower the gas passes to the heat exchanger, where it is cooled and liquefied. The liquid carbon dioxide is then raised to a pressure of 950 pounds per square inch and circulated through cooling coils, and the temperature is reduced to about  $-40^{\circ}\text{F}$ . From the cooling coils the liquid is conducted to the "snow chamber", where it is permitted to expand against atmospheric pressure. In expanding to form "snow" its temperature drops to about  $-110^{\circ}\text{F}$ . Helium, methane, and nitrogen escape with exhaust gas from the "snow chamber". At regular intervals the gas is shut off and the "snow" removed from the "snow chamber". The "snow" is tamped into a mold, and a 60-ton hydraulic press, exerting a pressure of 1,200 pounds per square inch, compresses it into 10-inch cubes weighing about fifty pounds.

The location of the field and the failure to eliminate petroleum from the solid carbon dioxide militates against the production of both. Production of petroleum here is difficult because the expanding carbon-dioxide gas results in the formation of a petroleum "slush" from which the petroleum is recovered only by heating or evaporation of the solid carbon dioxide.

Early experiments by Andrews, Cailletet, Caubet, Straus, and others on the peculiar physical properties of carbon dioxide showed that the critical temperature of the gas is lowered several degrees when it is mixed with other gases or vapors. Straus in 1880 derived a formula for the determination of the critical temperature of a gaseous mixture. This work suggested the possibility of injecting compressed air into the wells in order to lower the critical temperature of the mixture, and accordingly the writer has recommended its use to the operating company. According to Straus' formula, the addition of 10 percent air lowers the critical temperature of the gas from  $88^{\circ}\text{F}$ .; moreover, the addition of 25 percent air by volume lowers the critical temperature to  $11^{\circ}\text{F}$ ., which is considerably

below the average annual temperature of  $40^{\circ}$  F. The effect of the gas flowing from the well and its mixture with petroleum vapors can be determined only by further field investigation or experimental work, which, so far as the writer is informed, has not been attempted.

## THE PREPARATION AND PROPERTIES OF SOME 1-3 DIALKYL ETHERS OF GLYCEROL

By WILLIAM OTHO POOL<sup>1</sup>

Ethers of glycerol have been known for many years, but our knowledge of them is both limited and inexact. Different investigators have reported widely different constants for what was presumed to be the same compound. The present work was undertaken with the object of removing some of the uncertainty concerning a few of the ethers which have been previously prepared and with the purpose of synthesizing and studying other 1-3 dialkyl ethers of glycerol.

Twelve of the sixteen possible diethers of the type  $R-O-CH_2-CHOH-CH_2-O-R$  have been prepared from 1-3 dichlorohydrin and alcohols containing one to five carbon atoms. The following properties have been determined: density, surface tension, refractive index, solubility in water, and the vapor pressure. The heats of vaporization and equations for the pressure-temperature relationships have been calculated. Values of the molecular refractivities and parachors are included. A comparison has been made between the results of previous investigators and the data obtained in the present work.

<sup>1</sup> B.S. 1928, Mississippi State University; Ph.D. conferred June 7, 1933.



## FAMILIES OF GROUPS GENERATED BY TWO OPERATORS OF THE SAME ORDER

BY ABRAHAM SINKOV<sup>1</sup>

The problem of determining the groups generated by two operators has been studied for many years. In its most general form it is rather difficult, and the best that can be done, as yet, is to consider only special cases of it. In each such special case the defining relations of the group are set down as restrictions upon the generating operations  $S_1$  and  $S_2$ . These restrictions may assume any form whatever; for example, it may be required that the relative transforms of  $S_1$  and  $S_2$  be equal. Or, again, it may be required that the squares of  $S_1$  and  $S_2$  be invariant. It is not difficult to conceive many other types of restrictions that might be imposed; indeed, various problems could be easily formulated.

For the most part, however, the problems of this type which have appeared in the literature have used as defining relations the orders of  $S_1$  and  $S_2$  together with the order of some combination of them. The simplest combination that can be chosen is their product in a particular order, say  $S_1S_2$ , but any other combination would have just as much weight when considered as a restriction upon the generators. Now, it has been shown by Miller that the conditions  $S_1^k = S_2^l = (S_1S_2)^m = 1$  do not uniquely define a group except in a few very special cases. Setting these exceptions aside, the above conditions are shown to give rise to any one of an infinity of groups, and additional restrictions must be imposed before a single one of them can be completely determined.

It is interesting to note at this point that the sets of solutions which are obtainable in such a fashion can be divided into two distinct types. The distinction is most easily explainable by the use of a particular example of each. Consider first the problem studied by Eddington in his theses  $S_1^3 = S_2^3 = (S_1S_2)^3 = 1$ . The additional restriction which he imposes is  $(S_1S_2^2)^d = 1$ , and he finds that for every value of  $a$  there is a uniquely defined group of order  $3a^2$ . These groups are all solvable, and each contains an invariant abelian subgroup of order  $a^2$ . Moreover, in every case this subgroup is generated by the operators  $S_1S_2^2$  and  $S_1^2S_2$ , both of which are of order  $a$ .

In contradistinction to the above, consider the problem studied by Miller,  $S_1^3 = S_2^3 = (S_1S_2)^4 = 1$ , with the additional condition,  $(S_1^2S_2)^a = 1$ . For  $a = 1$  or 2 no group exists. When  $a = 3$ , the group  $G$  which is generated is solvable and of order 48. It contains an invariant abelian subgroup of

<sup>1</sup> B.S. 1927, College of the City of New York; A.M. 1929, Columbia University; Ph.D. conferred June 7, 1933.



order 16 generated by  $S_1 S_2$  and  $S_2 S_1$ . When  $a = 4$ ,  $G$  is the simple group of order 168. Finally,  $a = 5$  gives rise to a group of order 1,080, which contains as an invariant subgroup the alternating group on six letters. It is fairly apparent why the paper stops here—the groups generated for values of  $a > 5$  are very difficult to determine.

Nevertheless, this second problem has been carried sufficiently far to indicate a striking difference in the two types of solutions; there is great regularity in the first and almost complete randomness in the second. This seems to suggest an analogy between the first type of solution and a 1-parameter family of curves or surfaces. Hence the terminology "family of groups".

In geometry an extension to  $n$ -parameter families is immediate and so suggests a possible corresponding extension in the problem of groups generated by two operators. Some results have already been achieved along these very lines. In particular, Eddington has obtained a 2-parameter family of order  $nm^{n-1}$  and another of order  $nm^n$ .

The present paper exhibits for the first time a 3-parameter family which is a generalization of the first of the two families mentioned above.

To begin with, no other restrictions are supposed than that  $S_1$  and  $S_2$  are of the same order  $n$ , so that  $S_1^n = S_2^n = 1$ .

The set of operators  $A_i = S_1^i S_2^{n-i}$  ( $i = 1, 2, \dots, n-1$ ) is then considered, and it is shown that the subgroup  $H$  of  $G$  which is generated by this set is invariant under both  $S_1$  and  $S_2$ . It is consequently an invariant subgroup of  $G$  and in general of index  $n$ .

The generating set  $A$  is next replaced by an equivalent set  $\xi$  in the sense that this new set generates the same group. It possesses the added advantage that all the new generators are of the same order, for they are the complete set of conjugates of  $S_1 S_2^{n-1}$  under  $S_2$ . The new set takes the form—

$$\xi: \begin{cases} S_1 S_2^{n-1} \\ (S_1 S_2^{n-1})^{-1} (S_1^2 S_2^{n-2}) \\ \cdot \quad \cdot \quad \cdot \quad \cdot \quad \cdot \quad \cdot \\ (S_1^{n-1} S_2)^{-1} \end{cases}$$

The common order  $m$  of these new generators  $\xi$  is quite arbitrary and may be any integer whatever.

It is then assumed that the set  $\xi$  is commutative and that it is possible to choose  $n-k$  of them ( $k$  being a divisor of  $n$ ) to be an independent set in the restricted sense. The order of  $H$  is then  $m^{n-k}$ . Under that assumption it becomes possible to prove the following theorem:

TWO OPERATORS  $S_1$  AND  $S_2$  OF THE SAME ORDER  $n$  FOR WHICH THE SET  $\xi$  IS COMMUTATIVE GENERATE A GROUP  $G$  WHOSE ORDER IS AT MOST

$\pi m^{n-k}$  WHERE  $m$  IS THE COMMON ORDER OF THE OPERATORS  $\xi$  AND THE NUMBER  $k$  IS DEFINED AS THE GREATEST FACTOR OF  $n$  SATISFYING THE RELATION  $(S_1 S_2^{k-1})^2 = 1$ .

That the group  $G$  exists for every number  $\pi m^{n-k}$  is next demonstrated by exhibiting a general pair of generating substitutions,  $S_1$  and  $S_2$ , defined by—

$$S_1 = (A_1 A_2 \dots A_n) (A_{n+1} A_{n+2} \dots A_{2n}) \dots (A_{(m-1)n+1} A_{(m-1)n+2} \dots A_{mn}) \text{ and}$$

$$S_2 = (A_{p+1} A_{p+2} \dots A_{p+n}) (A_{n+p+1} A_{n+p+2} \dots A_{2n+p}) \dots (A_{(m-1)n+p+1} \dots A_{mn} A_1 A_2 \dots A_p)$$

where  $k$  is the greatest common divisor of  $p$  and  $n$ .

The properties of the groups  $G$  are next determined to be the following:

1. Every  $G$  is solvable.
2. The central is cyclic and of order  $D$  where  $D$  is the greatest common divisor of  $m$  and  $n/k$  except in the special case  $k = n/2$ ;  $m = 2$ . In this latter case the order of the central is  $2D$ . The invariant operators in the first case take the form—

$$\begin{aligned} & [(\xi_1 \xi_{k+1}^2 \dots \xi_{n-k+1}^{n-1}) (\xi_2 \xi_{k+2}^2 \dots \xi_{n-k+2}^{n-1}) \dots \\ & (\xi_k \xi_{2k}^2 \dots \xi_{n-k}^{n-1})] \frac{\pi q}{D} \\ & (q = 1, 2, \dots, D) \end{aligned}$$

In the second and special case the additional invariant operator,  $S_1^{n/2}$ , adjoined to the cyclic group just mentioned, doubles its order. This special case is the only one for which it is possible to have a power of  $S_1$  invariant in  $G$ . Moreover,  $S_1^{n/2}$  is the only such permissible power.

3. The commutator subgroup of  $G$  is contained in  $H$  and is of index  $D$  where  $D$  is the greatest common divisor of  $m$  and  $n/k$ . It is generated by the  $\pi-1$  operators  $\xi_i \xi_{i+1}^{-1}$  ( $i = 1, 2, \dots, \pi-1$ ).

The following special cases seem worthy of mention.

The family of groups  $G$  includes all cyclic and all dihedral groups. In the special case  $n=3$ ,  $k=1$ ,  $G$  is the group of order  $3m^2$  which was described in the introduction to this paper. It was used there to introduce the notion of a family of groups.

In the special case  $n=4$ ,  $k=2$ ,  $G$  is of order  $4m^2$  and is another of the families obtained by Eddington in his thesis. He defined the group by means of the relations  $S_1^4 = S_2^4 = (S_1 S_2)^2 = 1$ . The condition  $(S_1 S_2)^2 = 1$  is exactly what  $(S_1 S_2^{k-1})^2 = 1$  reduces to on setting  $k=2$ . It is interesting to note in connection with this family of groups that it is not necessary to assume the operators  $S_1^2$   $S_2^{n-2}$  commutative. In this particular case that property follows as a consequence of the defining relations.

Finally, by setting up a simple isomorphism between the 3-parameter family  $G$  and a similar one  $G$ , viz:

$$\begin{array}{ccc} G & S_1 & S_2 \\ G & S_1 & S_2^{-1} \end{array}$$

it is shown that Eddington's family of order  $nm^{n-1}$  is the special case  $k=1$ .



## TURKISH-AMERICAN ECONOMIC RELATIONS SINCE LAUSANNE

By RUDJHAN NADJI SIPAHI<sup>1</sup>

The present world industrial development was made possible only by the parallel expansion of international economic processes. This lends further support to the already established thesis that industrialization has made the nations of the world more interdependent than ever before, thus making for a world economic order. At the same time no international problem can be approached without going to the fundamentals which are the national economies involved, and this was done in the present study.

### PART I.—THE BASIS OF THE ECONOMIC RELATIONS

#### TURKISH NATIONAL ECONOMY AS A BASIS OF ECONOMIC RELATIONS WITH THE UNITED STATES

One may analyze the Turkish national economy in order to determine whether it is such as to produce competitive or complementary economic processes with the United States.

The present territory of the Turkish Republic covers 294,492 square miles. In 1927 the total population of Turkey was 13,648,270. The average density for the whole country was 17.9 per square kilometer.

In Turkey 81.63 percent of the total employed are engaged in agriculture, while in the United States only 21.9 percent are so employed.

On the other hand, manufacturing in Turkey engages only 5.59 percent of the total employed, while in the United States the manufacturing and mechanical industries comprise 29.8 percent of the gainful workers.

These and many other estimates illustrate the differences in the stages of industrial development in the United States and Turkey.

A birdseye view of the Turkish national economic structure shows the need of the country for agricultural, industrial, and transportation equipment. The position of the United States as a producer and exporter of these capital goods makes it possible for her partly to support the need of Turkey.

The dependence of the United States on some agricultural, forest, and mineral raw materials, and the Turkish position as a producer and exporter of these, are partly complementary.

The abundance of managing and expert abilities in the United States may complement that of Turkish scarcity, which is, at present, largely the result of small-scale industry.

<sup>1</sup> A.B. 1931, A.M. 1932, The George Washington University; Ph.D. conferred June 7, 1933.



The rich, virgin land of Turkey and the comparatively greater productivity of capital as the result of its relative scarcity, and the position of the United States as an important creditor nation, are, again, potentially complementary.

Altogether one comes to the conclusion that, with some exceptions, the national economies of the United States and Turkey and the resulting international economic processes are, at present, in almost all respects either actually or potentially complementary, and that these economic relations, subject to such items as transportation, competition of third countries, policies regarding foreign investments, and similar factors, hold possibilities of expansion far beyond present proportions, along lines which are mutually advantageous.

THE POLITICO-ECONOMIC BACKGROUND: CAPITULATIONS, TREATY RELATIONS, AND OTTOMAN DEBT ADMINISTRATION

The first treaty between Turkey and the United States was the Treaty of Commerce and Navigation of 1830. By virtue of some of its specific articles, and especially by its most-favored-nation clause, the United States was entitled to the so-called capitulatory privileges in the Ottoman Empire.

This relation, based on the capitulations, which later, by their extension, became dangerous to the political and economic existence of the country and also incompatible with the present concept of a state, continued until Turkey also became an independent, sovereign republic, master of its own destinies, after which time the relations between the two countries came to be based on the principles of international law, equality, and general reciprocity.

After the rejection of the American Treaty of Lausanne by the United States Senate on January 18, 1927, a *modus vivendi* was concluded which established the diplomatic and consular relations on the basis of international law and reciprocity. This is still in force and regulates diplomatic relations. The commercial relations were regulated by the extension of the *modus vivendi* of 1926, from time to time, until the Treaty of Commerce and Navigation became effective in 1930. The Treaty of Establishment, which was proclaimed on February 18, 1933, accords mutually most-favored-nation treatment. The other subjects will have to be dealt with in subsequent treaties and conventions.

Foreign nations, through capitulations and the Ottoman Debt Administration, restricted the power of Turkey to shape her economic policies according to her natural need, and instead directed them in the opposite way, thus making them detrimental and detractive to the economic development of the country.

Viewing the matter as a whole, and especially contrasting the old period of capitulatory and debt-administration control with the new period of

Turkish economic autonomy, there seems little question that Turkish-American economic relations are improved and potentially enlarged by that autonomy. This is so for several reasons. As for the capitulations, it is true that the United States had accepted these so-called privileges, by reason of the most-favored-nation clause. But this was a doubtful benefit in view of the limitations they placed upon Turkey. In the control through the Debt Administration the United States did not take part; she was thus fairly effectively, if not technically, excluded from many types of operations, as in investments and access of enterprise. Finally, the autonomy at last affords Turkey relatively unlimited new opportunities for her own development of resources and other economic potentialities. In this development, commercially, industrially, and financially, the United States has possibilities of helping and sharing, and these possibilities are enhanced by the peculiar good will surrounding the formal relations between the two nations.

## PART II.—ECONOMIC RELATIONS

The international economic processes are greatly interrelated, that is, they are in the last analysis the parts of one whole movement. In the same way the policies involved are interacting and interrelated, requiring a complete coordination on the basis of national economy if a successful and smooth functioning is desired. In this study these phases of international economic relations are first isolated as much as they lend themselves to such division, for a separate and clearer discussion; they are then viewed as a whole.

### COMMERCIAL RELATIONS

Turkish-American commercial relations were regulated by the *modus vivendi* of 1926, which granted most-favored-nation treatment and which was extended from time to time, the last period being for one year from April 11, 1929. Toward the end of this period, on October 1, 1929, a Treaty of Commerce and Navigation was signed at Ankara. This treaty was ratified by the United States and Turkey on March 3 and April 21, 1930, respectively, and the ratifications were exchanged at Ankara on April 22, 1930.

This treaty accords mutually to the commerce of both countries unconditional most-favored-nation treatment in matters of import and export duties, surtaxes, and other charges. By virtue of this unconditional most-favored-nation clause, the American exports to Turkey enjoy the lowest preferential rates of duty granted by Turkey to any country.

The present temporary Turkish policy of equalizing the trade balance with each country does not discourage, but in practice encourages, American exports to Turkey. The Council of Ministers, in conformity

with this, accepts the imports of American goods freely and without their being subject to import-quota restrictions up to the value of the Turkish exports to the United States. The present comparative volume of trade is such that this makes it possible for the exports of the United States to Turkey to increase, to triple, or even quadruple. The decree also itemizes the principle American commodities which benefit by it.

Under the existing treaties, technically the United States would be subject to the largest import quota given to any other country. But this decree, in practice, accepting the American imports without their being subject to import quota up to the value of Turkish exports to the United States, gives ample opportunity to American exports to multiply. Moreover, the import-quota system is necessarily temporary.

The summary analysis, at the beginning of this paper, of the Turkish national economy in comparison with that of the United States, provides a view of the mutual general economic market for both present and future possibilities.

The United States is one of the important markets for Turkish exports. The principal items at present are cigarette tobaccos, wool carpets and rugs, dried fruits, valonia, licorice root, opium, and wool. Turkey has climatic peculiarities in the production of agricultural raw materials exported to the United States. The United States is in need of some minerals which are produced or have future possibilities in Turkey, such as emery, chrome, antimony, and manganese. The Turkish exports of manufactured goods are peculiar to the national economy of Turkey, such as rugs, carpets, and other hand-made manufactures.

Exports from the United States to Turkey are relatively less important, but these also have possibilities of increase. The important groups of American exports to Turkey are motor vehicles, agricultural machinery, leather and leather manufactures, rubber and rubber manufactures.

Present Turkish economic policies in general seem to discourage the importation of commodities which can be manufactured in Turkey, such as wool and cotton manufactures, leather and leather manufactures. But they encourage the importation of agricultural and industrial machinery, equipment and tools, and the means of transportation.

The United States is able to supply most of these commodities desired by Turkey. Her success depends upon her ability to compete with other industrial countries in the fields of commerce, transportation, finance, and industry which are interacting and interpromoting.

#### TRANSPORTATION AND COMMUNICATION

The important policies affecting Turkish-American shipping relations may be said to be the freedom of the Straits, the reservation of coastwise trade by Turkey to her own ships, and the United States post-war shipping policy.



The Turkish policy is to establish the security of the Straits, in one way or another, as had been formulated in the "National Pact". The United States policy favored the freedom of the Straits. The consequent solution at Lausanne established the principle of freedom of transit and navigation, by sea and by air, in time of peace and in time of war, in the Straits. An international commission was also created to apply the provisions of the convention relating to the freedom of the Straits.

At Lausanne, Turkey reserved the coastwise trade to the ships of her nationals, and since July 1, 1926, the coastwise exclusion has been complete. The effect of the Turkish policy on Turkish-American shipping relations may be said to be the removal of advantages of third countries in comparison with the United States.

The general post-war shipping policy of the United States, as stated in the Merchant Marine Acts of 1920 and 1928, had a definite effect upon Turkish-American shipping relations.

The activities of the Shipping Board were successful in encouraging and promoting United States shipping with Turkey. The net tonnage of American vessels cleared in Turkish ports in 1928 was 50,607, while in 1931 it was 729,095, a very great percentage of increase. Also, a greater part of the United States exports to, and imports from, Turkey are carried in American vessels. This trend of increase is more noticeable in her exports to Turkey.

There are no peculiar features in the way of Turkish-American communication facilities.

Turkey's present productive capacity and consequently her purchasing power is far below her potential abilities. Under the economic policies of the Republic, the country's development will naturally affect her international economic processes. Shipping, as one of them, will be stimulated by the movement and in return will give impetus to that progress.

#### FINANCIAL RELATIONS

Turkish-American financial relations take a new form and importance in the post-war period, with a promising future.

Until 1919 there were no American banks in Turkey. This left American business men at a disadvantage. The branch of the American Express Company at present performs various banking services to both business men and travelers.

Although conditions are improving, the present export-financing mechanism in Turkey is inadequate. The case of financing imports is different. There is a great deal of competition between the various companies exporting to Turkey. American concerns seem to be very conservative in their extension of credit to importers; consequently they are not successfully competing with other countries.

Most of the Turkish exchange restrictions, being retaliatory in nature,



did not affect the United States. Although the external value of the Turkish pound has been kept stable in the last three years, it is a question whether this has encouraged exports and discouraged imports or the reverse.

It is a well-established fact that Turkey needs capital to develop the country. But acquaintance with the political and economic aims of the foreign nations in the recent past made the Turkish attitude toward foreign capital very reluctant. Any capital which now seeks political or economic control will meet with absolute opposition.

The United States open-door policy in the Near East, and the American process of private foreign investments, fit very well into Turkish need and policy.

The post-war period opened a new era in Turkish-American financial and industrial relations. Although the outside movement of American investments began at an earlier period, it was not directed toward this market, due to many factors. The primary ones may be said to be (a) the pre-war European investments and their financial and economic control in Turkey, somewhat excluding American capital; (b) the easier opportunities for the United States at home and in other areas; and (c) comparatively the lesser importance of the pre-war international economic and political position of the United States.

In this study, although the data available were found to be as yet somewhat limited, there has been compiled, for the first time, a summary account of the balance of international payments between Turkey and the United States. It provides a coordinated perspective, in terms of comparative money values, for a more thorough understanding of these economic relations as a whole.

The Turkish-American commodity balance was in favor of Turkey throughout the period taken in this study.

The important invisible items in the Turkish-American balance of payments are tourist expenditures; immigrant remittances; charitable, missionary, and scientific contributions; and freight payments and receipts. The former three items increase the net Turkish balance established by commodity exchange, and the last one decreases it.

Movement of American private long-term capital to Turkey in previous years was not important. In 1930 the amount of direct investments was \$5,250,000. The \$4,000,000 pure interest investment seems not to have been made from the United States.

After considering visible and invisible items between Turkey and the United States and the movement of new capital, there seems to remain a net balance in favor of Turkey. This net balance is probably settled by cash and by the triangular movement of visible and invisible items.

Thus, finally, to recapitulate, despite the relatively limited character of the relations, the national economies, the resulting international

processes, and the policies surrounding them, subject of course to such special factors as distance, for the most part are actually and potentially complementary and provide possibilities for significant further mutually beneficial development.

## CESTODES OF CARNIVORA

By MARY SCOTT SKINKER<sup>1</sup>

An attempt is made to assemble from the available literature all details contributing toward a description of every cestode reported from Carnivora of the world. The twenty genera reported from carnivores include about ninety species and many unidentified species. There are also included reports of a number of specimens of species and genera *incertae sedis*.

Critical examination of the facts thus assembled has enabled the author to indicate the synonymy of a number of specific names. Selection of drawings was made from among the many illustrations available, and all contributing toward the clarity of the specific diagnoses are included. The thirty plates given include 352 drawings, of which many are new. In cases where specimens were available for study, inadequately described species have been redescribed. So laborious has been the task and so great the number of facts to be considered that it has been impossible to add the descriptions of all the new species studied during this investigation. Publication of the thesis at an early date is contemplated, and the description of several new species is to be included.

<sup>1</sup> B.S. 1922, A.M. 1923, Columbia University; Ph.D. conferred June 7, 1933.



## THE GRASSES OF CHINA

By YI LI KENG<sup>1</sup>

This manual of the grasses of China covers China proper and Manchuria. Many species of Formosa, when the material is available, are also included. Those species found only in Mongolia, Chinese Turkestan, Kokonor, and Tibet are generally excluded, but the specimens seen from these regions are also cited under the species extending into Manchuria or China proper.

This work was prepared in the Grass Herbarium of the United States National Museum during the years 1930 to 1933. It includes 154 genera, 536 species, and 81 varieties, of which 2 genera, 77 species, and 34 varieties are described as new, beside 49 new combinations and 5 new names. All the species recorded here, except a few very common ones, have been checked with the original descriptions. About nine tenths have been compared with the type specimens or topotypes.

The last previous treatment of the Chinese grasses was by Rendle, who listed in 1904 about 350 species in Forbes & Hmesley's enumeration of Chinese plants including Korea, Formosa, and Luchu Islands. Of the 536 species presented here, more than 160 are known from China only, although about 10 of them in western and southern China also occur in Indo-China and Burma. But, since certain parts of China have not been thoroughly botanized, a large number of the Chinese grasses are still to be discovered.

Before publication the author expects to examine the types of a number of Chinese species deposited in European herbaria. It has been possible, however, through the courtesy of the officers of Kew Herbarium, the British Museum, and the herbaria of Vienna and Copenhagen, to borrow a number of the European types for study in Washington.

In preparing this taxonomic work, the author has intended to reduce genera and species rather than to describe any new ones, but the reduction to synonymy has always been done on a type basis. The nomenclature is in accord with the International Rules.

The author still follows Hackel in the main, although his arrangement is somewhat arbitrary, in classifying the grass family into 13 tribes under 2 subfamilies, but he uses the name Arundinelleae for the tribe which Hackel calls Tristegineae, and puts Phalarideae under the subfamily Panicoideae. Tristegis, a synonym of Melinis, probably belongs to another group (which Stapf calls Meliniastreae under the tribe Paniceae) different from that of Arundinella. The Phalarideae have a terminal fertile floret with the sterile

<sup>1</sup> B.S. 1927, Chinese National Southeastern University; A.M. 1932, The George Washington University; Ph.D. conferred October 18, 1933.

ones below as in Paniceae, a character which the author considers more fundamental than the laterally compressed spikelets and the articulation above the glumes.

Besides this brief statement on the grasses of China, there are three tables showing the number of genera, species, etc., to summarize this work, as follows:

*Table showing the estimated number of genera and species in different tribes of the world and of China*

Tribes	Genera and species of the world		Genera and species of China	
	Genera	Species	Genera	Species
Bambuseae	45	550	8	41
Festuceae	110	1,000	25	114
Hordeae	25	200	8	20
Aveneae	40	450	8	20
Chlorideae	50	300	10	21
Zoysiaeae	20	40	3	5
Agrostideae	60	900	20	99
Oryzae	17	60	5	8
Phalarideae	6	80	3	5
Paniceae	82	1,580	23	89
Arundinelleae	6	90	2	11
Andropogoneae	80	750	36	100
Maydeae	8	30	3	3
Total	549	6,030	154	536

*Table showing the number of species, varieties, new species, new varieties, etc., recorded in different Chinese genera, with the estimated number of the world's species indicated in parenthesis.*

Genera	Species	Varieties	New species	New varieties	New combinations	New names
Sasa (12)	1					
Arundinaria (80)	19		3		2	
Thamnocalamus (6)	1				1	
Phyllostachys (25)	6	1	1			
Bambusa (70)	7					
Oxytenanthera (16)	1		1			
Dendrocalamus (24)	4					
Schizostachyum (25)	2					
Pappophorum (20)	1					
Elytrophorus (3)	1					
Arundo (5)	2	2		1		
Neyraudia (3)	2	1	1	1	1	
Phragmites (4)	2	1		1		

Table showing the number of species, varieties, new species, new varieties, etc., recorded in different Chinese genera, with the estimated number of the world's species indicated in parenthesis—Continued.

Genera	Species	Varieties	New species	New varieties	New combinations	New names
Cleistogenes (5).....	4	3	1		5	1
Moliniopsis (2-3).....	1	1		1	1	
Eragrostis (100).....	21	3	6	1	1	
Catabrosa (10).....	1					
Harpachne (2).....	1				1	
Melica (70).....	6					1
Diarrhena (3).....	1					
Centotheca (2).....	1	1			1	
Lophatherum (1).....	1	1			1	
Briza (2).....	1					
Aeluropus (3-4).....		1				
Dactylis (1-2).....	1	1			1	
Poa (200).....	25	6	7	4	2	1
Glyceria (40).....	8	1	3	1		
Pucinellia (30).....	4	2	3	1	1	
Festuca (100).....	12	6	3	3	2	
Littledalea (2).....	1		1			
Schizachne (2).....	1				1	
Bromus (100).....	11	2	6	2	1	
Brachypodium (10).....	3	4	2	3	1	
Lepturus (3-4).....	1					
Lolium (8).....	1					
Agropyron (60).....	7	6	2	4	1	
Secale (5).....	1					
Triticum (10).....	1					
Hordeum (20).....	3	1				
Elymus (45).....	3	4	1	2	1	
Hystrix (8).....	1				1	
Notholcus (8).....	1					
Eriachne (20).....	1					
Coelachne (7-8).....	1					
Deschampsia (35).....	3					
Trisetum (65).....	4				1	
Koeleria (20).....	1					
Avena (55).....	8	2	1	1	1	
Danthonia (100).....	1					
Leptochloa (30).....	3					
Eleusine (10).....	2					
Dactyloctenium (5).....	1					
Triopogon (15).....	5		1			
Chloris (50).....	3				1	
Enteropogon (6).....	2				1	
Cynodon (10).....	2	2		1		
Eustachys (10).....	1					
Microchloa (4).....	1					
Bechmannia (1).....	1					
Tragus (1).....	1					



Table showing the number of species, varieties, new species, new varieties, etc., recorded in different Chinese genera, with the estimated number of the world's species indicated in parenthesis—Continued.

Genera	Species	Varieties	New species	New varieties	New combinations	New names
Zoysia (5).....						
Perotis (3).....	3					
Aristida (150).....	1					
Stipa (100).....	3					
Oryzopsis (20).....	12		1			
Milium (5).....	5				1	
Muhlenbergia (80).....	1					
Brachyelytrum (1).....	3					
Cryptis (8).....	1					
Phleum (10).....	1					
Alopecurus (30).....	3					
Steudella (1).....	6	1			1	
Sporobolus (100).....	1					
Phaenosperma (1).....	5					
Polypogon (6).....	1					
Garnotia (20).....	2					
Agrostis (100).....	5	1	1	1		
Stephanachne (2).....	26	4	10	1	1	
Calamagrostis (15).....	1		1			
Deyeuxia (100).....	3					
Aulacolepis (2-3).....	18	4	6	2	4	
Cinna (3).....	1					
Oryza (10).....	1					
Leersia (15).....	1					
Hygroryza (1).....	3					1
Chikusichloa (2).....	1					
Zizania (3).....	2		1			
Phalaris (20).....	1					
Antheroxanthum (10).....	2					
Hierochloa (20).....	1					
Digitaria (100).....	2					
Eriochloa (25).....	14	2	1	1	1	
Paspalum (300).....	2					
Echinochloa (10).....	8	1				
Brachloa (20).....	2	4			1	
Brachiaria (80).....	4					
Tricholaena (15).....	4		1			
Oriochloa (3-4).....	1					
Oplismenus (10).....	1					
Alloteropsis (5).....	3					
Panicum (400).....	1					
Cryptococcum (6-7).....	14	1	1	1		1
Pseudochinolaena (1).....	2					
Acroceras (10).....	1					
Ichnanthus (25).....	2				2	
Isachne (80).....	1					
Hymenachne (10).....	8	1	2			
	3					

Table showing the number of species, varieties, new species, new varieties, etc., recorded in different Chinese genera, with the estimated number of the world's species indicated in parenthesis—Continued.

Genera	Species	Varieties	New species	New varieties	New combinations	New names
Sacciolepis (30).....	2					
Setaria (100).....	9	2			2	
Pseudoraphis (5).....	2				1	
Pennisetum (80).....	3					
Stenotaphrum (5).....	1					
Spinifex (4).....	1					
Arundinella (40).....	10	1	1			
Thysanolaena (1).....	1					
Dimeria (20).....	3					
Miscanthus (10).....	6	1	1			
Imperata (10).....	1					
Saccharum (12).....	5					
Erianthus (20).....	3		1			
Spodiopogon (10).....	5					
Eulalia (25).....	7					
Eulaliopsis (1).....	1					
Apocypis (8).....	2					
Germainia (4).....	1					
Pogonatherum (2-3).....	1					
Microstegium (30).....	6		1		1	
Ischaemum (50).....	8	2	1	1	1	
Arthraxon (10).....	3					
Phacelurus (4).....	1	1			1	
Thyrsia (3-4).....	1					
Hemarthria (8).....	2	1	1			
Rottboellia (15).....	3	1	1			
Mnesithea (8).....	1					
Ophiurus (4).....	2					
Rytillix (1-2).....	1					
Eremochloa (10).....	3					
Rhaphis (20).....	2					
Dichanthium (10).....	2					
Bothriochloa (25).....	3				1	
Capillipedium (6).....	2					
Holcus (30).....	3				1	
Andropogon (100).....	2					
Sehima (5).....	1					
Schizachyrium (50).....	3					
Apluda (1).....	1					
Cymbopogon (30).....	5					
Hyparrhenia (60).....	2					
Heteropogon (4).....	2					
Eremopogon (5).....	1					
Themeda (15).....	5					
Polytoca (9).....	1					
Coix (10).....	1	1				
Zea (1).....	1					

Table showing the number of Chinese species ranging in different localities

Localities	Number of species
Eastern China.....	15
Southern China and Formosa.....	44
Western China.....	74
Northern China and Manchuria.....	18
Central China.....	14
North India and western China (Himalayas).....	40
India to Japan.....	20
India to southeastern China.....	11
Tropics of the world.....	23
Tropical Old World.....	18
Tropical Asia.....	64
Tropical Asia, Australia, and New Guinea.....	22
Tropical Asia and Africa.....	10
Temperate and warm regions of the world.....	45
Temperate and warm regions of the Old World.....	6
Temperate Eurasia.....	25
Temperate eastern Asia.....	59
Central and northern Asia.....	8
Circumpolar region.....	6
Eastern Asia and North America.....	3
Abyssinia to eastern China.....	1
Asia Minor and western China.....	1
Introduced from temperate Europe.....	6
Introduced from Africa.....	2



## DEVELOPMENTAL STAGES OF NEMATODES OCCURRING IN SWINE

By JOSEPH EVERETT ALICATA<sup>1</sup>

This paper contains descriptions of the larval stages of twelve species of nematodes parasitic in swine, as follows: *Gongylonema pulchrum*, *Ascarop strongylina*, *Physocephalus sexalatus*, *Metastrongylus salmi*, *M. elongatus*, *Choerostongylus pudendotectus*, *Ascaris suum*, *Trichuris suis*, *Hyostrongylus rubidus*, *Oesophagostomum dentatum*, *Stephanurus dentatus*, and *Strongyloides ransomi*.

The first portion of this paper contains a brief historical resume of the subject of larval nematodes parasitic in swine. This is followed by a general discussion dealing with the life history of the various species of parasites mentioned above. Following this, the morphological and experimental data are presented in detail. Each species is treated separately from the viewpoint of its nomenclature, host relationships, geographic distribution, morphology, and biology of the early developmental stages. The principal facts brought out in this section are summarized below.

1. When fed to roaches, eggs of *G. pulchrum* hatched within twenty-four hours, and the larvae developed to the infective or third stage in about thirty-two days. These larvae encysted within the sarcoplasm of the muscle fibers of the insect host. When fed to guinea pigs, third-stage larvae promptly penetrated the tissue at the junction of the stomach and esophagus, usually entering the wall of the esophagus in this region, and migrated under the linings of the esophagus and of the oral cavity; under these linings the worms reached sexual maturity in about seventy days. Eggs of *G. pulchrum* contained viable embryos after four months' exposure to outdoor conditions at  $-6.6^{\circ}$  to  $37.7^{\circ}$  C. Three new intermediate hosts for this parasite are reported in this paper, namely, *Aphodius lineatus*, *Dermestes vulpinus*, and *Parcoblatta* sp.

2. When fed to beetles, eggs of *A. strongylina* hatched within twenty-four hours, and the larvae developed to the infective stage in about twenty-nine days. Eggs of this parasite contained viable embryos after twenty days' exposure at  $2^{\circ}$  to  $-4^{\circ}$  C., and after being kept four months at room temperature ( $22^{\circ}$  to  $24^{\circ}$  C.). Two new intermediate hosts are reported in this paper for this parasite, namely, *Aphodius granarius* and *Parasitius cornutus*.

<sup>1</sup> A.B. 1927, Grand Island College; A.M. 1928, Northwestern University; Ph.D. conferred February 22, 1934.

3. When fed to beetles, eggs of *P. sexalatus* hatched within twenty-four hours and developed to the infective stage in thirty-six days. Eggs of this parasite contained viable embryos after being kept at a temperature of 2° to -4° C. for twenty days. Two new intermediate hosts for this parasite are reported in this paper, namely, *Ataenius cognatus* and *Passalus cornutus*.
4. The larvae of *Metastrongylus salmi* have been successfully reared to the third stage in earthworms, *Lumbricus terrestris*, and *Helodrilus caliginosus* var. *trapezoides*; these three larval stages found in the earthworm have been described. It has been shown that third-stage larvae may remain alive in the body of the earthworm for at least four months.
5. The third-stage larvae of *Metastrongylus elongatus* and *Choerostrongylus pudendotectus* have been found in the body of earthworms as late as nine months after experimental infection. It has been noted that lungworm eggs eliminated with the feces of swine do not hatch outside the host and that the surface of the eggshell possesses small mammillations.
6. Eggs of *Ascaris suum* were found to reach the infective stage in sixteen days at 33° C., in eighteen days at 30° C., and in twenty-eight days at room temperature (22° to 24° C.). The infectivity of the egg was determined by the molting of the embryo within the shell and by the ability of the eggs to produce an infestation when fed to guinea pigs; nonmolted embryos were not infective to guinea pigs.
7. Eggs of *Trichuris suis* were found to contain fully developed embryos in eighteen days when kept at 37.5° C., in twenty-two days at 33° C., in fifty-four days at room temperature (22° to 24° C.), and in about seven months outdoors when kept underground; the temperature outdoors during the seven months was 6.1° to 24° C.
8. Eggs of *Hyostrongylus rubidus* cultured at room temperature hatched, and the larvae developed to the infective stage in seven days. Third-stage larvae fed to guinea pigs developed in the stomach without undergoing further migration, and reached the fifth stage in seventeen to nineteen days. The differential morphological features of the four larval stages have been studied. Sex in the preparasitic larval stages of *H. rubidus* has been differentiated by the position of the most posterior of four "giant cells" in the body cavity of the larva. Preparasitic larvae in which this giant cell is anterior to the genital primordium develop into males, while those in which this cell is slightly lateral or posterior to the genital primordium develop into females. The general development of the male and female reproductive systems was traced in the four larval stages of this parasite. Third-stage larvae of *H. rubidus* showed the following characteristics: (a) the larvae failed to penetrate the skin of young rats or guinea pigs; (b) the larvae were resistant to a temperature of 3° to 5° C. for 144 hours (six days), but not to a temperature of 1° to -5° C. for 720 hours (thirty days); (c) the vitality of the larvae kept at -20° C. for nine hours was destroyed; (d) larvae were killed if subjected to air drying for four

hours; (e) in water-charcoal culture, larvae survived for a period of three months, but not for a period of about four months.

9. Eggs of *Oesophagostomum dentatum* cultured at room temperature hatched, and the larvae developed to the infective stage in six days. Third-stage larvae of *O. dentatum* showed the following characteristics: (a) the larvae failed to penetrate the skin of young rats under experimental conditions; (b) some larvae showed signs of life when exposed to  $-19^{\circ}$  to  $-29^{\circ}$  C. for ten days; however, their vitality was destroyed when kept at a temperature of  $-15^{\circ}$  to  $-29^{\circ}$  C. for thirty-one days; (c) larvae were killed when subjected to air drying for twenty-two hours; (d) larvae kept in water-charcoal culture for about ten months appeared normal.

10. Eggs of *Stephanurus dentatus* cultured at room temperature ( $22^{\circ}$  to  $24^{\circ}$  C.) hatched, and the larvae developed to the infective stage in about five days. Third-stage larvae have been found to possess the following characteristics: (a) larvae failed to penetrate the skin of two-day-old rats; (b) larvae succumbed after one hour's exposure to air drying at room temperature; (c) the vitality of the larvae was not destroyed when exposed for six hours at  $-19^{\circ}$  C., but an exposure for nine hours at that temperature proved fatal; (d) larvae were found normal after being kept in water and charcoal media for forty days.

11. New facts were brought out with reference to the structure of the anterior and posterior ends of various stages of *Strongyloides ransomi*. It was noted that the life of *S. ransomi* in feces and charcoal cultures kept in bottles at room temperature did not exceed eleven to thirteen days. Strongyliiform larvae were found to perish when subjected to air drying for about twenty minutes, and when subjected to  $-15^{\circ}$  C. for twenty-five days.

The last section of the paper presents tables which summarize the comparative morphology of the eggs and third-stage larvae of the various swine nematodes discussed in the paper; the tables are designed to aid in identifying the eggs and larvae of these nematodes.



## SECONDARY EDUCATION IN NORTH CAROLINA PRIOR TO 1800

By EUGENE DAVIS OWEN<sup>1</sup>

The present study has been undertaken to find the place of the North Carolina academies in the evolution of education in the United States, and, in view of the wide variation in recent lists of these academies made by educators, to ascertain the facts concerning eighteenth-century secondary education in North Carolina.

In the eighteenth century three types of secondary schools were to be found in America: the Latin Grammar School, chiefly in New England, a purely classical institution designed to prepare young men for college with ultimate view to the ministry; the English Grammar School, established for local convenience by individual instructors without responsibility to any governing body, having a curriculum of classical and English branches; and the Academy, having a curriculum similar to that of the English Grammar School, but with the instructor responsible to a relatively permanent board of trustees. To secure the materials used in this dissertation, the principal libraries in North Carolina and in Washington have been used.

It has been found that more academies were chartered before 1800 in North Carolina than in any other State, not only in proportion to population but in actual number. The background for the American academy was the English academy of university or theological-seminary grade, founded by the dissenters in the seventeenth century, but so modified in the early part of the eighteenth century, particularly by Dr. Philip Doddridge, as to teach secondary subjects to both ministerial students and those designed for other professions, through English rather than Latin. In 1743 Reverend Francis Hutcheson, then a professor at the University of Glasgow, gave the Presbyterians of the Synod of Philadelphia advice as to how to establish a school of their own, which advice, when acted upon, resulted in the first academy in America. The first secondary school chartered in the United States was in Philadelphia in 1753; the second, in North Carolina in 1766; and the third, in Delaware in 1769. The charity feature, though not in the intentions of the founders of the first two of these schools, was nevertheless retained for a time for convenience. Vocational training early became an important function of the academy, which no doubt helped to make it a popular educational

<sup>1</sup> A.B. 1925, Cornell College; A.M. 1930, North Carolina College for Women; Ph.D. conferred February 22, 1934.

institution when, for many of the students, utility was not a function of the Latin Grammar Schools.

The first school in North Carolina likely to have been of secondary grade was that taught by Reverend Daniel Earl at Edenton in 1750. From this beginning, schools increased in number, many of them, however, being of short duration. Many of the schools which were chartered never opened, and others which received no charters flourished. The school which lasted longest was that of Reverend David Caldwell in Guilford County. It is impossible to identify many of the schools as to location or date of opening or closing. However, fifty-five of them can be located definitely as to county and as having been in operation at some time during five-year periods. The counties in which the largest numbers of these schools were located were New Hanover, Rowan, and Chowan. However, many other schools, the fact of whose operation is just as certain, cannot be definitely identified either as to location or date of operation.

Eighteenth-century governors of North Carolina who encouraged the establishment of schools were Arthur Dobbs, William Tryon, Alexander Martin, and David Ashe. Churches were the centers about which secondary education was principally organized, and of these the Presbyterian and the German churches were easily leaders. Methodists had one district school and one private school. Neither Quakers nor Baptists entered the field of secondary education in North Carolina before 1800. However, some men not actively engaged in religious work nor affiliated with religious bodies were active in the cause of education.

Prior to 1800 North Carolina was overwhelmingly rural, having only fifty-seven places of sufficient importance to be considered geographical locations in Morse's *American Gazetteer* in 1797; and of these, the largest had only about four hundred houses; but, since thirty-eight of these locations were situated on post roads, communication with other parts of the State and with other States must have been fairly good for that period.

The Society for the Propagation of the Gospel in Foreign Parts was primarily interested in elementary education and in mission schools for Indians or negroes, but in more than one instance assisted in what amounted to secondary education. More classical teachers came to North Carolina from the College of New Jersey than from all other institutions combined. Other institutions which directly or indirectly influenced education in the Colony or State were the College of Philadelphia, the Scotch and Irish universities, the universities of Germany, and Dartmouth and Yale Colleges.

In all, thirty-two secondary schools were chartered by the North Carolina Legislature for what is within the present bounds of the State of North Carolina; but counting other acts referring to specific schools, fifty-two acts relating to individual schools were passed before 1800. These

legislative acts, whether ever carried out or not, show trends in educational thought. The acts passed frequently named trustees whose names are of interest as those favoring educational advancement. The charters and other acts contained a variety of provisions relating to control, curriculum, instructors, financial aid, granting of certificates, and many other matters.

The schools about which most is known usually continued through most of the year, frequently opening the annual sessions in January or October. Vacations were ordinarily of less than a month in duration, and usually only one or two were scheduled during the year. In no school is enrolment known to have passed one hundred, and in most of them, it was much less than that figure. Public examinations and exhibitions were frequently held and apparently received much attention from the public. There were some instances of coeducation, especially in the eastern part of the State and during the last decade of the century. Apparently about seven hours a day were spent in school. In general, charge for tuition was about one half of that for board and other expenses. Only a few of the textbooks known to have been used were recent ones, most of them being recent editions of books several decades or more old. Latin was the subject most frequently mentioned in curricula; but, especially during the closing years of the century, some schools were finding it expedient to replace it with subjects they considered more useful. Crude attempts at grading were sometimes made, but mainly for the purpose of charging higher tuition fees for the more advanced subjects.

Teaching, if one judges from the teachers in North Carolina during the eighteenth century, was not looked upon as a profession, but merely as a stepping stone toward some other work, for only one teacher continued in the profession throughout life. The ministry was the most frequent after-work of those who engaged in teaching, but the law and medicine claimed several of them. During the early years most of the secondary teachers were graduates of colleges and universities, but later in the century teachers came mainly from secondary schools within the State. The picture of secondary education in North Carolina before 1800 presented in this dissertation is but an imperfect one, yet it shows interesting tendencies which compare favorably with those of other States during that period.



## AN EXPERIMENTAL STUDY OF THE EFFECT OF GOSSYPOL UPON THE ALBINO RAT AND GUINEA PIG

By HENRY STEVENS<sup>1</sup>

The history of the cottonseed milling industry in the United States is reviewed with particular reference to the events which led to the development of controversies concerning the properties of cottonseed and cottonseed press-cake meal when used as a feed for livestock. The conflicting evidence relating to the cause of a toxicosis, sometimes associated with the use of cottonseed meal as a protein concentrate, is presented and discussed. Of this evidence, the experimental demonstrations which culminated in the identification of gossypol as the toxic constituent of the cottonseed are considered in detail and accepted as a satisfactory basis for the present investigation.

Experiments are described in which the guinea pig and albino rat were employed as subjects for determining some of the physiologic effects on these species which result from the ingestion of cottonseed meal, raw cottonseed, gossypol in its naturally occurring state, and gossypol in extracts obtained by treatment of the cottonseed or press-cake meal with some organic fat solvents.

A part of the study is devoted to the examination of some nutritive properties of several representative cottonseed products in acquiring necessary information for the identification of physiologic effects due to the ingestion of gossypol as it occurs in the seed and press-cake meal.

An important relationship is established between the toxic effects produced by the ingestion of ground raw cottonseed in a ration for rats and the proportion of a purified protein supplement included in the ration.

Experimental data are interpreted and submitted in the form of graphs exhibiting growth performance of the experimental animals used in the course of the investigation.

The results of the entire investigation are summarized in a statement of conclusions which are as follows:

1. The albino rat and the guinea pig manifest symptoms of a toxicosis resulting from the ingestion of rations containing gossypol in its naturally occurring form in the cottonseed or in the form present in some cottonseed press-cake meals.

2. The guinea pig is more sensitive to the toxic effects of gossypol than

<sup>1</sup> B.S. 1921, M.S. 1923, University of Wisconsin; Ph.D. conferred February 22, 1934.

the rat, but the latter species is more useful as an assay animal when the ration component carrying the gossypol is to be varied within a wide range of concentrations in the ration.

3. A widely used chemical procedure for the quantitative determination of gossypol has been proved to be unreliable for predicting the toxicity of cottonseed products.

4. The fact that cottonseed meal is a good source of vitamin B has been confirmed. Cottonseed meal does not contain an appreciable quantity of vitamin A.

5. Cottonseed meal may be classed as a good source of vitamin G for the rat. Rations containing at least 20 percent of cottonseed meal require no other components for supplying this vitamin in adequate amounts for normal development of the rat during an interval of rapid growth.

6. The lint and hull materials in the quantities commonly found in commercial cottonseed meals have no significant effect on the ability of the rat to utilize the essential nutrients in an experimental ration, when the cottonseed meal constitutes as much as 40 percent of the ration.

7. The proteins of cottonseed meal are of high biological value, and a ration containing sufficient cottonseed meal to provide 15 percent of crude protein in the diet of the rat requires no supplements of other proteins nor other sources of vitamin B or vitamin G for the normal development of this species.

8. The vitamin B and vitamin G potency of commercial cottonseed press-cake products cannot be assumed to be constant among meals or flours from different sources. The usual criteria for establishing market grades for cottonseed meals, such as crude-protein content, color, and texture, do not together serve as a reliable index of the value of a cottonseed meal as a source of vitamins B and G.

9. The extraction of a raw cottonseed kernel meal or press-cake meal with ethyl ether can serve to remove the physiologically active gossypol to a degree that renders the residue nontoxic to rats. The extract obtained by this process, while containing chemically determinable quantities of gossypol, may not be toxic to the rat when ingested at levels reported to produce serious damage to this species.

10. A marked degradation in the physiologic activity of ingested gossypol of raw cottonseed occurs when the ground seed is allowed to stand at room temperature in contact with some common solvents for gossypol.

11. The growth-depressing effect of gossypol, ingested in its naturally occurring form, is influenced to a marked degree by the total quantity and character of the protein supplement in a ration for rats. An acceleration in the growth rate of rats induced by increasing the level of casein or fish meal in a ration containing a toxic quantity of naturally occurring gossypol can be definitely related to a specific antidotal effect of the protein.

12. The antidotal effect of casein has not been demonstrated with the guinea pig, since this species cannot tolerate as much as 25 percent of casein in a ration that is otherwise adequate for the normal development of this species.

13. Depression in growth rate and the appearance of symptoms of toxicity, such as ascites, inanition, loss of muscular tone, a staring coat, or a rapid progressive loss in weight, and death, are the important recognizable manifestations of injury resulting from the ingestion of gossypol by the rat or the guinea pig. However, none of these symptoms nor any combination of these manifestations of toxicity has proved to be, alone, specifically characteristic of gossypol toxicity.

14. A biological assay with the rat or guinea pig may be considered to be a reliable method for determining the physiologically active gossypol present in a raw cottonseed meal or in a cottonseed press-cake meal, provided that due consideration is given to the manner in which the response of these species to the toxic component of the ration may be influenced by other ration components.



# THE LIFE HISTORY OF "AGAMERMIS DECAUDATA", A MERMITHID NEMATODE

By JESSE ROY CHRISTIE<sup>1</sup>

The life cycle of *Agamermis decaudata* Cobb, Steiner, and Christie, 1923, is divided into (1) the embryonic and ovic larval stage, which includes the development of the embryo from the time the egg is deposited to the time it hatches; (2) the preparasitic larval stage, which includes the period between hatching and the entrance of the larva into a host; (3) the parasitic larval stage, which includes the development within the host; (4) the postparasitic larval stage, which extends from the time of emergence from the host until the larva undergoes its final molt; and (5) the adult stage.

## THE EMBRYONIC AND OVIC LARVAL STAGE

Adult mermithids of this species are found in the soil, coiled within small cavities. Here eggs are deposited and undergo embryonic development. The egg is somewhat discoidal, having the shape of a sphere considerably flattened on opposite sides. Eggs deposited by females 3 to 12 cm long measure, in their greater diameter, 106 to 141  $\mu$ , with an average of 109  $\mu$ . Those deposited by females 15 to 46.5 cm long measure 141 to 182  $\mu$ , with an average of 166  $\mu$ . The eggs do not increase gradually in size corresponding to an increase in the length of the female which deposits them, but fall into two well-defined groups.

The early cleavage stages resemble closely those of other nematodes. The stylet is formed from a dorsal odontium or tooth joined with the anterior end of the esophageal tube, the odontium forming the "head" of the stylet and a portion of the esophageal tube forming the "shaft". In a thirty-day ovic larva the anterior part of the esophagus is distinctly differentiated. It is a subcylindrical structure with an anterior, a median, and a posterior enlargement or swelling of which the posterior enlargement persists to form the contractile bulb of the preparasitic larva. In the forty-day ovic larva the posterior part of the esophagus, together with the anlage of the stichocytes and the esophageal glands, is partly differentiated. The ovic larva molts at least once within the egg. Eggs are deposited from June until the advent of cold weather, but hatching is largely confined to the spring, i.e., from the first of June to the middle of July.

<sup>1</sup> B.S. 1914, University of Kentucky; M.S. 1918, University of Illinois; Ph.D. conferred June 6, 1934.

## THE PREPARASITIC LARVAL STAGE

Preparasitic larvae hatching from the smaller type of eggs are from 2 to 2.15 mm long, and those hatching from the larger eggs are from 4.4 to 5.57 mm long. Cobb, who first studied these smaller larvae, regarded them (unpublished notes) as probably a different species. Subsequent investigations have failed to substantiate this opinion and indicate that they may arise through some host relationship not yet understood.

The body of the preparasitic larva is divided into two parts. The anterior part constitutes slightly less than one fifth the total length and contains the principal organs. The posterior part is composed of a moniliform series of cells and functions as a propelling organ. The two parts are separated by a modified region termed the node, at which point an automatic amputation takes place when the larva enters the host, the postnodal region usually remaining on the outside. The esophagus is about 550  $\mu$  long and the intestine 80 to 90  $\mu$  long. The genital anlage, composed of two cells, lies at the junction of the esophagus and intestine.

The esophagus is composed of a narrow, cylindrical, anterior portion about 245  $\mu$  long with a conspicuous lumen, circular to faintly triradiate in cross section, followed by a muscular bulb about 35  $\mu$  long with a distinctly triradiate lumen, which, in turn, is followed by a posterior part about 270  $\mu$  long. The portion of the esophagus posterior to the bulb is flanked by two rows of eight nuclei each, which, together with the protoplasm associated with them, constitute the anlage of the stichosome. In addition, there is a right subdorsal gland which extends the entire length of this part of the esophagus, and two smaller, left, subventral glands. These three glands are regarded as homologous to the esophageal glands of other nematodes. The nerve ring is situated about 125  $\mu$  from the anterior end of the body, and the excretory pore is located opposite the nerve ring. The intestine lacks a lumen and contains a loose network of granules.

On hatching, the larvae migrate to the surface of the soil, climb the vegetation, seek out the young grasshopper nymphs, and enter the body cavity. This is accomplished by puncturing the body wall, usually between the sclerites, where the chitin is soft.

## THE PARASITIC LARVAL STAGE

During the first three days in the host the esophageal glands disappear. The sixteen nuclei which flank the posterior part of the esophagus become gradually larger and more conspicuous. At the end of six days each nucleus is located in a unicellular body (stichocyte). At the end of fourteen days the stichocytes are the most conspicuous structure in the anatomy of the larvae. Simultaneously the intestine, which was comparatively short in the preparasitic larva, increases rapidly in length. In eight to ten days its cells begin to push past the base of the esophagus and extend into

the anterior region of the body. There is a rapid increase in the length of the body, the additional space becoming filled with the growing intestine or, as it is now called, the trophosome. A larva immediately after entering the host has a length not exceeding  $850\mu$ . Males remain in the host from one to one-and-a-half months and grow to a length of 1 to 12 cm. Females remain in the host from two to three months and grow to a length of from 3 to 46.5 cm.

Grasshopper nymphs experimentally infested with ten or more *Agamer-mis decaudata* larvae are often killed. In nature, however, one parasite per host appears to be the usual number, and death from over-infestation is probably not common. The final emergence of these parasites invariably results in the death of the host. Infested grasshopper nymphs develop more slowly than normal nymphs, and their gonads, especially the ovaries, usually remain vestigial.

Based on the examination of 3,106 grasshoppers collected near Falls Church, Va., and composed largely of *Melanoplus femurrubrum*, *Orchelimum vulgare*, and *Conocephalus brevipennis*, 15.1 percent of the males and 12.4 percent of the females were found infested with this parasite.

#### THE POSTPARASITIC LARVAL STAGE

Once free from the host, the postparasitic larvae enter the soil. In the region of Falls Church, Va., emergence takes place largely during August and September. These mermithids usually penetrate the soil from 10 to 15 cm, where they coil themselves into the characteristic "knot" and remain throughout the winter. The majority of the females molt during the following July and begin depositing eggs in early August. Males remain coiled separately during the first winter and molt the following June or July, after which they seek out and join the females. Thus in the postparasitic larval stage a "knot" usually consists of one individual, male or female as the case may be. In the adult stage a "knot" usually consists of one female and several males.

#### THE ADULT STAGE

At the time of the final molt both males and females are very opaque, due to the stored food material in the trophosome. During subsequent life in the soil the animals probably do not take food but subsist on that stored during larval development. As time passes and this stored food is consumed, the body becomes increasingly less opaque. As already noted, egg-laying usually begins early in August. It is continued until interrupted by the advent of cold weather. It is resumed the following spring, usually during July, and continues until again interrupted by cold weather. By this time the stored food material is nearly consumed and the females are quite transparent. Experimental animals usually failed to survive a third winter.



## A STUDY OF OBJECTIVE EMPLOYMENT TESTS IN THE NEW JERSEY CIVIL SERVICE

By HENRY FURNESS HUBBARD<sup>1</sup>

The chief purpose of this study was to determine the value of objective employment tests for four selected classes of positions in the State and municipal civil service of New Jersey. Another object of the study was the determination of the relative values of other recruiting methods in comparison with the objective employment tests. These other recruiting methods for the same four classes of positions included the free-answer written test, the Army Alpha intelligence test, the oral interview, the medical and physical test, and the rating of experience and training. Finally, an attempt was made to find the relationship of such miscellaneous factors as age, veterans' preference, and geographical residence to the objective test and to occupational proficiency.

The four classes of positions for which the objective employment tests were used included Prison and Reformatory Officer, Patrolman, Fireman, and Bank Examiner (Junior, Intermediate, and Senior grades). The objective tests consisted of batteries of five or six subtests designed to measure such traits as memory, reading comprehension, judgment, and knowledge of the duties. Except in the test for Bank Examiner, however, the knowledge tests were rather elementary and were designed to measure general ability rather than specific proficiency for the work. The test batteries each contained from two to three hundred short-answer questions, chiefly in the true-false, completion, and multiple-choice forms.

The methods used in this study were largely statistical and included the determination of the validity, reliability, and similar characteristics by which tests and other recruiting methods may be evaluated. However, such nonstatistical factors as legality, public opinion, practicability, and the elimination of favoritism are also considered.

### SUMMARY OF FINDINGS

The findings of this study may be summarized as follows:

1. The use of objective employment tests in the New Jersey Civil Service and other public jurisdictions is increasing.
2. The objective employment tests for four selected classes of positions, Prison and Reformatory Officer, Patrolman, Fireman, and Bank Examiner in the New Jersey Civil Service are short-answer-test batteries designed to measure general intelligence or aptitude in terms of the duties.

<sup>1</sup> A.B. 1928, A.M. 1929, The George Washington University; Ph.D. conferred June 6, 1934.

3. The four objective employment tests studied have moderate validity, ranging from .33 to .51.
4. The four objective employment tests studied have high reliability, ranging from .89 to .94.
5. The four objective employment tests studied are generally satisfactory from the standpoint of such other statistically determined characteristics as comprehensiveness, distribution, central tendency, variation, low intercorrelations of subtests, item analysis, and test standardization based on adequate norms. The test for Bank Examiner appears to be somewhat less satisfactory than the other tests in some of these respects, probably because of the smaller number of cases involved.
6. The four objective tests studied appear to be reasonably satisfactory from the standpoint of such nonstatistical factors as legality, public opinion, practicability of administration, and the elimination of favoritism.
7. The relative predictive value of the four objective employment tests studied is higher than that of any other single recruiting method used in the civil-service examinations for the four selected classes of positions. The other methods include medical and physical test, oral interview, experience and training, free-answer written test, and Army Alpha intelligence test.
8. The predictive value of the four objective employment tests studied is only slightly lower than that of the whole civil-service examination.
9. The four objective employment tests studied have relatively low correlations with the other recruiting methods, except the intelligence test.
10. The four objective employment tests have high correlations with the Army Alpha intelligence test, ranging from about .70 to .80.
11. The Army Alpha intelligence test ranks second among the recruiting methods used in average validity for the four classes of positions.
12. The other recruiting methods have low but positive average validity for the four classes of positions, ranging from .17 for experience and training to .26 for the free-answer test (used only for the Bank Examiner). Experience and training, however, has a validity coefficient of .36 for Bank Examiner.
13. Veterans' preference has negligible correlations with both objective-employment-test scores and occupational performance, as measured by service ratings, for the four classes of positions studied.
14. Geographical residence has a very slight effect on the median scores on the objective employment tests for Patrolman and Fireman made in different municipalities.
15. Age, within the limits prescribed for the different classes of positions, has practically negligible correlations with both objective-employment-test scores and occupational performance, although there is a very slight tendency for older men to rank lower on both service ratings and test scores.

## CONCLUSIONS

On the basis of the findings of this study, the following conclusions are drawn:

1. The current trend in selection of public employees in New Jersey and other civil-service jurisdictions is away from the use of traditional free-answer written tests designed to measure mere knowledge, and towards the increased use of objective tests designed to measure more fundamental traits and capacities. The results of this study appear to justify this trend.
2. One of the chief criticisms that can be made of public-employment methods is the rather general lack of knowledge as to the validity of the tests used. Objective statistical analyses should be used as far as possible in evaluating the different types of recruiting methods.
3. There is an urgent need for the development and use of more dependable service ratings as an aid in the evaluation of employment tests. The unreliability of most service ratings makes it difficult to determine validity.
4. The existence of personnel problems other than recruiting should be more generally recognized. The present trend in civil-service administration indicates that in some jurisdictions these other problems are being recognized as important in themselves and in relation to recruiting.
5. The objective employment tests studied have only moderate absolute predictive value, but have the highest relative value of the recruiting methods used for Prison and Reformatory Officer, Patrolman, Fireman, and Bank Examiner. Greater weight should therefore be given to this part of the examination.
6. The objective employment tests offer a valid substitute for standardized intelligence tests, making for greater appeal because of the use of duties terminology.
7. The low predictive value of the other recruiting methods indicates the need for modification of civil-service examinations on the basis of statistical analysis. Because of the limitations of available knowledge, it is not recommended that these other recruiting methods be abandoned. It is recommended that they be given decreased weights in the examination procedure and that they be revised as a result of further analysis.
8. The effect of the factors of veterans' preference, geographical residence requirements, and age on test scores and on occupational efficiency as determined, is very low or negligible. The justification for the use of these factors must be found outside the field of this investigation. Further study is needed in other jurisdictions and for other classes of employees.
9. The attitude of public-personnel administrators should be that of willingness to use the best available employment tests, while recognizing their limitations. The need for further research in the evaluation of employments can hardly be overemphasized.



## AN APPLICATION OF CHARACTERISTIC FUNCTIONS TO THE DISTRIBUTION PROBLEM OF STATISTICS

By SOLOMON KULLBACK<sup>1</sup>

By the distribution problem of statistics we mean the problem of determining the distribution law of functions of variables satisfying known distribution laws. Many particular problems of this nature have been solved by various methods. In part 1 of this paper we develop a general solution for this problem for functions of variables satisfying continuous distribution laws. The general result is then applied in part 2 to derive the distribution laws of several functions whose distribution laws have been derived by other methods and of some functions whose distribution laws have not been given or given only for special cases; in part 3 we summarize the results. The method of solution is related to the concept of characteristic function.

The theory of characteristic functions is essentially a development of Laplace's "*fonction génératrice*". In this paper we shall adopt the term "characteristic function", although the same concept has been termed "generating function" and "reciprocal function". Poisson employed the methods of Laplace to discuss, in particular, "*Sur la probabilité des résultats moyens des observations*". Cauchy was apparently the next to study and apply this theory; he applied the basic concept of characteristic function in connection with what he called "*coefficient limitateur ou restricteur*" to study the problem of a function of errors. In particular, he studied the case of a linear function of the errors. More recently the same concept has been reintroduced under the name of characteristic function by Poincaré and also by P. Lévy, who employs it to consider the composition of laws of probability, the notion of the limit of a probability law, the idea of stable and semistable laws, etc.

In a series of papers, C. V. L. Charlier further applied and developed the theory of characteristic functions (though he employed the terminology of reciprocal functions) to develop the Gram-Charlier type A and type B series and to consider the distribution law of functions of variables satisfying general frequency laws. Under the name of "*Erzeugenden Funktion*", T. Kameda studied the properties of functions which are intimately related to characteristic functions. In particular, he discussed the development of a function as a series of Hermite Polynomials and also considered the problem of finding the distribution law of a function of variables obeying general distribution laws.

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By the characteristic function of the distribution law of the variable  $x$  is meant the mean value of exponential ( $itx$ ). The characteristic function derives its importance from the fact that the distribution law of  $x$  may be derived from the characteristic function by a single quadrature.

For the case of several variables, we have that the characteristic function of the distribution law of  $x, y, z, \dots$  is the mean value of exponential ( $irx + isy + itz + \dots$ ). In a similar manner, the distribution law of  $x, y, z$  is given as the "Laplace Transform" of the characteristic function.

In order to find the probability that the function  $u$  of  $x, y, z, \dots$  be between the values  $v$  and  $w$ , we apply a discontinuity factor derivable from Fourier's Integral Theorem to the integral of the distribution function of  $x, y, z, \dots$  over the region where  $u$  lies between  $v$  and  $w$ . We justify the inversion of the order of integration necessary to arrive at the final form of our theorems, which we now state.

**Theorem 1.**—If  $u = u(x, y, z, \dots)$  is any function which may have at most a denumerable infinity of discontinuities of the variables  $x, y, z, \dots$  where the distribution law of  $x, y, z, \dots$  is given by  $f(x, y, z, \dots)$  which is on a certain  $n$ -dimensional manifold  $R$  a single-valued, non-negative, continuous function such that the integral of  $f(x, y, z, \dots) dx dy dz \dots$  over the region  $R$  is unity, then the characteristic function of the distribution law of  $u$  is given by the mean value of exponential ( $itu(x, y, z, \dots)$ ) over the region  $R$ .

**Theorem 2.**—Under the conditions of theorem 1, the distribution law of  $u$  is given by  $1$  over  $2(\pi i)$  times the integral from minus to plus infinity of exponential ( $-itu$ ) times the characteristic function as found from theorem 1.

**Theorem 3.**—If  $u = u(x, y, z, \dots)$ ;  $v = v(x, y, z, \dots)$ ;  $w = w(x, y, z, \dots)$ ,  $\dots$ , which may have a denumerable infinity of discontinuities, are functions of the variables  $x, y, z, \dots$  defined as in theorem 1, then the characteristic function of the distribution law of  $u, v, w, \dots$  is given by the mean value of exponential ( $iru(x, y, z, \dots) + isv(x, y, z, \dots) + itw(x, y, z, \dots) \dots$ ) over the region  $R$ .

**Theorem 4.**—Under the conditions of theorem 3, the distribution of the  $m$  functions,  $u, v, w, \dots$  is given by  $1$  over  $2(\pi i)^m$  raised to the  $m$ th power times the multiple integral from minus to plus infinity of exponential ( $-iru - isv - itw, \dots$ ) times the characteristic function as defined in theorem 3.

These general theorems are then applied to various special cases. In particular, we obtain general formulae for the distribution of the arithmetic mean and geometric mean as obtained from a sample of  $n$ . As a further special case, we find the distribution law of the geometric mean of a sample of  $n$  from a rectangular parent. The cases,  $n$  equals 2, 3, have been given previously by A. T. Craig. As a further interesting special case we find

that the geometric mean of  $n$  independent variables respectively satisfying Pearson type III laws in which the exponents of  $x$  are respectively given by  $p-1, p+1/n-1, \dots, p+n-1/n-1$  is the same as the distribution of the arithmetic mean of  $n$  independent variables each satisfying the Pearson type III law with  $p-1$  as the exponent of  $x$ .

The following lemma will for certain cases simplify the problem of finding the distribution of statistical parameters calculated about a sample mean.

**Lemma:** Consider the sample as a point or points (for multivariate distributions) in an  $n$ -dimensional Euclidian space. (This method has been employed to great advantage by R. A. Fisher and others.) Then, if the probability density at any point (the probability for that particular combination of values to occur) is a function of the distance from the origin, the mean value of a function of the distance from the origin and of other geometric invariants of the system for the points lying on planes through the origin will be the same as for the same function for independent variables in  $n-1$  dimensional space.

This lemma, with the general theory, is then applied to derive in a new manner the distribution of several parameters whose distributions have been derived by various procedures. These parameters are the variance of a sample of  $n$  from a normal population; the  $X^2$  of "Goodness of Fit Test"; simultaneous distribution of variances and correlation coefficient of a sample of  $n$  from a bivariate normal population; and covariance of a sample of  $n$  from a bivariate normal population. The previous considerations are applied to answer the query, "Do  $N$  samples each of  $n$ -categories come from the same  $n$ -variate normal parent?" As a result of this query, we also find that the chi-test may be applied to a contingency table. If the table has  $r$  rows and  $c$  columns, the value of  $n^1$  to be used in Elderton's Tables of "Goodness of Fit" is  $n^1 = (r-1)^* (c-1) + 1$ .

One of the generalizations considered by Wilks is that of the sample variance. For a sample of  $N$  from an  $n$ -variate normal population, the generalized sample variance is defined to be the symmetric  $n$ th order determinant of the  $n(n+1)/2$  sample variances and covariances.

Wilks has given the distribution of the generalized variance as an  $n-1$  tuple integral and has been able to find the explicit form of the distribution only for the cases  $n$  equals 1, 2.

By applying the theory of characteristic functions we are enabled to express the distribution of the generalized variance as a single integral and have found the explicit form of the distribution. The evaluation of the integral was accomplished by applying Cauchy's Theory of Residues, it being necessary to integrate an integrand involving the product of gamma functions of a complex variable over a suitable contour.



# AN EXPERIMENTAL STUDY OF THE FACTORS OF REACTION TIME AS EXHIBITED BY A CROSS SECTION OF THE POPULATION OF WASHINGTON, D.C.

By LLOYD ERNEST RACKLEY<sup>1</sup>

In 1795 an assistant in the Royal Observatory at Greenwich was discharged for inaccuracy of observation because his recorded observations were consistently slower than those of his chief. He was not vindicated until some twenty-five years later, when Bessel, a noted astronomer at Königsberg, by comparing his observations with those of other noted astronomers of Central Europe, found a difference equal to that found at Greenwich.

Since that time this problem has been of interest to both the physiologist and the psychologist, and considerable study has been given to certain phases of it.

These studies may be divided into two general types. The first type has sought to establish norms of reaction time; the second type has sought to determine the relation of reaction time to other factors, such as mental ability, race difference, sex difference, age, and driving an automobile.

Some of the studies are characterized by poorly controlled experimental conditions, subjective judgment, and questionable interpretation of results. In most of these studies rate of performance of some task was used as a measure of reaction time. Since this criterion is greatly influenced by experience, it seemed desirable to make a similar study using movement in a simple motor act, such as moving the foot or hand, as a measure of reaction time. Such investigation is the purpose of this study.

In this study an experimental investigation is made of the relation of reaction time, as measured by the Brown chronoscope, to such factors as mental ability, a given amount of practice, driving experience, various amounts of physical exercise, hour of the day, and the members of the body (hands and feet).

The Brown chronoscope approximates a driving situation, in that it requires the subject to make a simple motor movement similar to that of moving the right foot from the accelerator pedal to the brake pedal. It has the advantage of being simple to operate, gives almost immediate results, and has a reliability of  $.91 \pm .03$ .

The subjects used were young men and women from The George Washington University, Howard University, Central High School, National Training School for Boys, and the Traffic Bureau of Washington.

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The findings may be stated briefly as follows:

1. There is a slight positive relationship between reaction time in a simple motor movement and mental-test scores, as represented by an average correlation of  $.33 \pm .045$ .
2. There is a slight difference in the reaction time of the white and negro subjects. A comparison of two groups containing 100 of the 161 subjects of the two races shows a difference of 1.32, sigma dif. .167, in favor of the whites; a comparison of two groups containing 61 subjects of both races shows a difference of .25, sigma dif. .48.
3. There is a reduction in reaction time with practice, as represented by a difference of 2.87, sigma dif. .34.
4. There is no significant difference in reaction time of experienced and inexperienced drivers. This is shown by a difference in the average reaction time of .42, sigma dif. .54.
5. There is a significant initial reduction in reaction time with physical exercise. This is shown by a difference of 1.00, sigma dif. .05.
6. There is a significant difference in the average reaction time of the two sexes. This is shown by a difference of 1.44, sigma dif. .28.
7. There is a significant difference in the average reaction time at different hours of the day. This is shown by a difference of 1.58, sigma dif. .32.
8. The greatest difference is between the reaction time at 8 a.m. and at 4 p.m., which is 1.91, sigma dif. .28.
9. There is a significant difference between the reaction time in the hands and feet, as shown by a difference of 1.71, sigma dif. .06; there is no difference in the reaction time of the two hands or the two feet. This is shown by a difference of .13, sigma dif. .09 for the hands when both are moved to the left, and .02 sigma dif. .12 for the right and left feet when they are moved to the left. There is a slight difference in the reaction time of the left hand when it is moved to the right and the left; the same is true of the left foot. This is shown by a difference of .60, sigma dif. .05, and .44, sigma dif. .11 for the left hand and left foot respectively.

This study has demonstrated the utility of the Brown chronoscope in measuring reaction time in a simple motor act, established at least tentative norms of reaction time, shown the relation of speed of reaction in a simple motor act to the factors studied, and reemphasized the importance of the personal equation in the various adjustments which modern man is called on to make.

It is hoped that this study may aid in the establishment of critical scores for traffic, industry, athletics, etc., where the personal equation is of so much importance.

## A CONTRIBUTION TO OUR KNOWLEDGE OF THE GENUS "SUCCINEA" IN NORTH AMERICA

By HARALD ALFRED REHDER<sup>1</sup>

The genus of mollusks, *Succinea*, was erected in 1801 by Draparnaud for two species, of which *Succinea putris* Linné was designated the genotype in 1822 by Fleming. Later authors included in this genus various *Succinea*-like mollusks belonging to the family Bulimulidae, which were not removed from it until the jaws and radulae of these forms were critically examined by workers like W. G. Binney and Paul Fischer between 1870 and 1880.

Mörch in 1865 placed *Succinea* and several genera of sluglike snails in a separate group, the Elasmognatha, characterized by the quadrate accessory plate on the jaw.

The nature of the jaw was then made the basis of separating the *Succineas* into several subgroups by Baudon and Hazay, who studied the species found in France and around Budapest, respectively. These groups were given subgeneric names by Mörch and by Westerlund, the latter designating types for them as follows:

<i>Neritostoma</i> (Klein) Mörch	<i>Succinea putris</i> L.
<i>Oxyloma</i> Westerlund	<i>Succinea dunkeri</i> Pfr.
<i>Amphibina</i> (Hartmann) Mörch	<i>Succinea pfeifferi</i> Rossm.
<i>Lucena</i> Oken	<i>Succinea oblonga</i> Drap.

The first of these, *Neritostoma* (Klein) Mörch (1863), proves to be preoccupied by *Neritostoma* H. and A. Adams (1855); moreover, the type designated by Westerlund, *Succinea putris*, is also the type of *Succinea* ss. The name, therefore, drops into the synonymy of *Succinea*.

*Amphibina* Hartmann and *Lucena* Oken were substitute names for *Succinea*, and *Succinea putris* Linné was designated type of these genera as early as 1847 by Gray. These names are therefore synonyms of *Succinea* ss. and cannot be used for any other group. For these names Lindholm proposed in 1927 the names *Hydrotropa* and *Hydrophyga*, respectively.

Quick has recently shown that the differences in the nature of the jaw are accompanied by even greater differences in the radula and genitalia; Thiele's doubts as to the validity of these subgenera are therefore laid to rest.

The North American *Succineas* are separable into three subgenera and one group of species whose affinities are at present doubtful.

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## SUBGENUS "SUCCINEA"

The type is *Succinea putris* Linné.

The typical subgenus is characterized by having from three to five lateral folds on the well-arched jaw, and about twice as many marginal teeth in the radula as laterals. It is a holarctic group and is represented in North America by *Succinea ovalis* and *Succinea strigata* Pfeiffer.

*Succinea ovalis*, found in the northeastern part of North America, is closely related to *Succinea putris* Linné and is apparently a descendant of the same ancestral stock. The distribution of these two species, one in northeastern America and the other in northwestern Eurasia, leads us to agree with those workers who postulate a late Tertiary connection between Europe and North America by way of the Faroes, Iceland, and Greenland.

During the Pleistocene period the species was represented by the subspecies *pleistocenica* F. C. Baker, a form differing from the typical *ovalis* in possessing a thicker shell and a smaller, more rounded aperture. These characters point to a more arid climate during that time, these same differences being found in the Pleistocene forms of other species. This subspecies also had a more southern range than the recent form, having been found in Natchez, Miss., and northern Texas, showing a southward invasion by the northern biota during the Pleistocene.

The subspecies *Succinea ovalis optima* Pilsbry and *S. ovalis chittenangoensis* Pilsbry are restricted local forms. *Succinea ovalis optima*, a giant form of this species, is found only in the northwestern corner of Dutchess County, N.Y., while *Succinea ovalis chittenangoensis* Pilsbry, characterized by the protracted spire, is restricted to the Cazenovia Valley in Madison County, N.Y.

*Succinea strigata* Pfeiffer, generally known as *Succinea chrysis* Westerland, is found in Alaska and northwestern Canada to the lower Mackenzie River Valley, and also on the Asiatic shores of Bering Sea. The typical form is found in the northern part of this range and in the interior, while the subspecies *alaskana* Dall is found along the southern part of the coast and on the islands; this form is more inflated than *strigata strigata*. The subspecies *yukonensis* Rehder, with a larger, more elongate aperture, is restricted to the lower Yukon Valley. *Succinea strigata* Pfeiffer has its nearest relative in north-central Siberia, where *Succinea turgida* Westerland is apparently similar to *Succinea strigata alaskana* Dall.

## SUBGENUS "HYDROTROPA" LINDHOLM

The type is *Succinea pfeifferi* Rossmässler.

This subgenus has a jaw with rather long limbs, with no lateral fold, and with the marginal teeth about three to five times as numerous as the laterals. It is also holarctic, being found in the greater part of North America, Europe, and northern Asia. In North America there are ten species and subspecies belonging to this subgenus.

*Succinea verrilli* Bland, from the region about the Gulf of St. Lawrence, is indistinguishable from *Succinea groenlandica* "Beck" Möller from Greenland and Iceland, and this distribution is another argument for the former land connection between Europe and North America.

*Succinea peoriensis* "Wolf" Walker is the name of the species that has been known as *Succinea ovalis* Gould, not Say. It is found in eastern and central Canada and northeastern United States and is closely related to the European *Succinea pfeifferi* Rossmässler. Its nearest relative on this continent is *Succinea nuttalliana* Lea, of which *Succinea rusticana* Gould is a synonym. *Succinea nuttalliana* is found in western Canada and in the Rocky Mountain region in this country as far south as northern Colorado. These species are the Canadian and Alleghanian expressions of *Hydrotrapa*. *Succinea aurea* Lea and *Succinea decampii* Tryon are well-marked, more or less local forms related to these species. *Succinea fultonensis* F. C. Baker is the Pleistocene form of *Succinea peoriensis* and may be merely a subspecies of the latter; it has a higher spire and smaller aperture, pointing here again to a drier ecological habitat.

Under *Succinea retusa* Lea have been synonymized the following names: *Haydeni* W. G. Binney, *haydeni minor* W. G. Binney, *sillimani* Bland, *higginsii* Bland, *calumetensis* Calkins, *retusa magister* Pilsbry. This form stretches from Ohio westward to the eastern parts of California, Oregon, and Washington. It may be that the western forms of this species will be found to differ from the eastern representatives, since in the few examples examined there seemed to be a difference in the radular formula. Further anatomical study of these forms is necessary before a definite opinion can be given.

*Succinea hawkinsi* Baird may be a synonym of *retusa*, but for lack of typical material it has been kept distinct.

The southern representative of this subgenus is *Succinea salleana* Pfeiffer, which is found along the Gulf coast from Texas to Florida, coming northward in the Mississippi Valley and along the Atlantic coastal plain. There are some variable specimens from around Washington, D.C., and from southern Indiana and Illinois that seem to be intermediate between *Succinea salleana* and *retusa*. Here again more material is needed before we can trace out the zoological and geographical limits between these species. *Succinea salleana effusa* "Shuttleworth" Pfeiffer is a very effuse form restricted to central Florida.

#### SUBGENUS "LEUCINEA" REHDER

The type is *Succinea luteola* Gould.

This subgenus has a broad, rather gently arched jaw, with the marginal teeth as numerous or twice as numerous as the laterals. This group has no known representatives in Europe, but seems centered in the West Indian region, with several species in the Antillean Islands and others in eastern



Mexico and southern United States. The coastal forms have white or yellowish shells, with the interior of the aperture generally yellowish. Those forms that have migrated inland have acquired a thinner to almost transparent shell.

*Succinea luteola* Gould is found along the shores of the Gulf of Mexico from Yucatan to Florida, advancing into the interior for a considerable distance in Mexico, Texas, and in Mississippi and Alabama. *Succinea floridana* Pilsbry, a form with a shorter, less slender spire, is restricted to southern Florida and is apparently a rather recent immigrant from the Antilles, probably from Cuba.

*Succinea campestris* Say is much more inflated than the previous forms, and is a coastal form like *floridana*, being found close to the sea beaches from near Beaufort, N.C., to Daytona, Fla., the southern part of its range overlapping that of *Succinea floridana*.

Closely related to *Succinea campestris* is *Succinea foenicolor* Rehder, which is found from central Florida north to Cape May, N.J. It is apparently also found along the Gulf coast, but the extent of its range there is not certain; specimens close to *Succinea foenicolor* have been seen from Louisiana and Galveston, Tex. This species is a coastal form, but is found further inland, along the inlets and bays, and the shells have consequently lost the white color of the sea-beach forms, being more yellowish and thinner.

A species close to *foenicolor* is *Succinea unicolor* Tryon, which is more inflated, with a larger aperture and thinner shell. It is found in Louisiana and also central Florida, and seems to have crept up the Mississippi Valley, for specimens have been seen from Missouri.

The rare *Succinea indiana* Pilsbry, from southwestern Indiana, is similar in shape to *Succinea foenicolor*, and may be a related form that migrated up the Mississippi Valley in the past and was left there as a relic colony.

*Succinea bayardi* Vanatta is found to be apparently closely related to *Succinea foenicolor*. It was originally described from Prince Edward Island, Canada, but has since been found near Exeter, N.H., along the Agawam River in Plymouth County, Mass., and near New York City. The shells of *Succinea bayardi* are almost inseparable from juvenile forms of *Succinea foenicolor*, and in the lot from New York City there is a transition from the typical *Succinea bayardi* to a form very close to *Succinea foenicolor*. These widely separated records of *Succinea bayardi* are apparently relic colonies of a once greater distribution.

*Succinea concordialis* Gould is apparently a member of this group, though it differs from the others by a thinner, more slender shell. It is found along the Gulf coast from Texas to Florida and is rather widely dispersed in the Mississippi Valley, restricting itself, however, to the river bottoms. A very closely related form is *Succinea sanibelensis* Rehder, from western Florida, which is even more slender.



## SUBGENUS

A group of four species and one subspecies is placed here until more complete knowledge of their anatomy will permit their being assigned a definite systematic position. All possess a shell with rather rounded whorls and have an equal number of lateral and marginal teeth in the radula. In this respect they approach the European *Succinea arenaria* Bouchard-Chantereux, and some of the American forms may be related to this species.

*Succinea vagans* Pilsbry, found only at Cape May, N. J., has an ecological habitat similar to that of *Succinea arenaria*, namely, a sandy region along the seacoast, and may be a near relative of the European species. It is possible that on further exploration it will be found to have a wider, though local, distribution.

*Succinea avara* Say is represented by three forms. *Succinea avara avara* Say is the eastern form, found over the greater part of northeastern America. In the Rocky Mountain and Basin regions it is replaced by *Succinea avara stretchiana* Bland, which has a higher, more slender spire and a shorter aperture. Finally, the Pleistocene form is *Succinea avara gelida* F. C. Baker. Baker considers this a subspecies of *Succinea grosvenorii*, but it seems closer to the present species, being very near certain forms of *avara stretchiana* Bland, but generally with an even more slender spire and smaller aperture. Here we have again a Pleistocene form that suggests a drier climate, somewhat similar to that found in the range of *avara stretchiana* Bland.

*Succinea grosvenorii* Lea is apparently closely related to *Succinea avara*, and some small forms are very similar to the specimens of the latter. It has a wide range in the Rocky Mountain region, coming east as far as western Minnesota and Missouri and in the south extending in a lobe into central Alabama.

Very similar to *Succinea grosvenorii* and *Succinea avara* is *Succinea guadelupensis* Dall, found only in the Santa Barbara Islands, off southern California, and on Guadalupe Island, off Lower California. This is a rather puzzling form, as there is nothing very similar to it on the nearby mainland, its nearest relatives being in the interior.

*Succinea oregonensis* Lea has a thinner shell with a larger body whorl and seems different from the other members of this group. It is found from northwestern Washington to northern Lower California, being restricted to the coastal regions; in certain places, however, it has ascended the river valleys into the interior.

Pre-Pleistocene Succineas are very rare in North America, this continent boasting of only two species as opposed to twenty-eight found in Europe. *Succinea papillispira* White, a species with a very small spire and large aperture, is found in the Green River beds of the Middle Eocene. Dall described a form from the Pliocene of the Caloosahatchie beds in Florida as *Succinea luteola* Gould, but it is not that species but an unnamed species.

# THE VIRUS OF INFECTIOUS MYXOMATOSIS

By JAMES STEVENS SIMMONS<sup>1</sup>

One of the most interesting of the filterable viruses is *Virus myxomatosis*, which causes a peculiar disease of rabbits known as infectious myxomatosis. As this condition appears to be strictly limited to certain varieties of rabbits, it is of no immediate importance to human medicine; and, due to its rarity, the disease is of little or no economic interest. However, because of the regularity with which *Virus myxomatosis* produces typical, easily recognized lesions, it affords an unusually satisfactory virus for use in fundamental experimental studies. Moreover, the unique nature of its pathogenic action, which involves the production of an acute fatal infection and at the same time the development of rapidly growing, nonsuppurative tumors, suggests the possibility that further studies of the virus of infectious myxomatosis may indicate a new approach to the unsolved problem of neoplastic diseases in general.

Since its discovery by Sanarelli in 1898, outbreaks of the disease have been reported at infrequent intervals among rabbits in Uruguay, Brazil, and Argentina; and since 1930 epizootics have occurred in several rabbitries in southern California. In the latter location the disease has usually appeared in May, June, and July, the morbidity being about 60 percent and the mortality among infected animals 100 percent. The source of these outbreaks is unknown, but it has been suggested that the infection may exist in a chronic state in a few animals and only occasionally cause epizootics, or that the virus may be carried by some now unknown wild-animal host, from which it is transmitted by contact or possibly through insects.

## GENERAL CHARACTERISTICS OF "VIRUS MYXOMATOSUM"

### FILTERABILITY

The virus will pass through Berkefeld V and N and also through Chamberland L filters provided appropriate methods are used (Moses 1911; Hobbs 1928; Findlay 1929; Kessel, Prouty, and Meyer 1930), but a large part of the virus may be lost during filtration.

### ADSORPTION

Hobbs (1928) has shown that virus can be adsorbed with powder obtained by crushing either Berkefeld or Chamberland candles. He

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obtained negative results with chalk, Fuller's earth, talcum, infusional earth, animal charcoal, wood charcoal, manganese dioxide, calcium sulphate, aluminum monohydrate, and aluminum oxide; but he observed that virus was also adsorbed by plain ferric oxide, basic aluminum sulphate, aluminum hydroxide (50 percent by volume), carmine (0.5 gm to 4 cc, and by aluminum phosphate, which inactivated the virus. Leukocytes also adsorbed a portion of the virus.

#### ELECTRICAL CHARGE

Natarajan and Hyde (1930) found that the virus was electro-negative, moving to the anode in buffer solutions of pH 4.9 to 9.3. The associated protein moved to the cathode at pH 4.1; but separation by this method was not practicable, as the virus was quickly inactivated below the pH of 4.9.

#### REMOVAL OF ASSOCIATED PROTEINS

Lewis (1931) has shown that after adsorption with powdered animal charcoal or aluminum cream, saline extracts of virus, containing 0.5 mg to 1.0 mg of N per 100 cc were still infective.

#### METABOLISM

Barron (1932) concluded that myxomatous tissues showed no reducing power and did not contain succinodehydrogenase, which is present in normal tissues and transplantable tumors. He also reported that the Pasteur reaction or the relationship between respiration and fermentation of rabbit myxoma is +1.5, or similar to that of benign tumors studied by Warburg.

#### RESISTANCE TO PHYSICAL INFLUENCES

The virus survives throughout the life of the infected animal, but after death (Hyde and Gardner 1933) its infectivity is lost when cadaveric autolysis takes place, after seven days, probably due to the acid reaction of the tissues (pH 3.5). In tissues collected before or after death the virus may be preserved for long periods depending on various environmental factors.

(a) *Reaction*.—Hobbs (1928) observed that virus suspensions diluted 1-100 in Locke solution 7.1, survived fifteen minutes' exposure at room temperature to pH concentrations of 4.0 to 12, inclusive, but were destroyed at more acid or alkaline reactions. Natarajan and Hyde, using longer exposure periods and virus which had been preserved in acid glycerin, found that it was destroyed at pH 4.9.

(b) *Drying and Daylight*.—In tissues the virus is resistant to rapid drying in a desiccator (Moses 1911, Findlay 1929; Hyde and Gardner 1933) and may remain infective for several months, but in extracts spread on



slides and exposed to daylight at room temperatures, it loses its infectivity in five or six days.

(c) *Ultraviolet Light*.—Andervort and Hobbs (1928) found that exposure of thin layers of virus extract to ultraviolet light (24 lithopone units) rendered it noninfective and that this effect was not due to heat. Radiation on rabbit skin before or after inoculation failed to prevent infection.

(d) *Temperature*.—The virus survives longest at low temperatures. Its infectivity is lost more quickly at room temperature than in the refrigerator. In infective blood it has been preserved on ice for periods of four months to two years (Rivers 1930). The thermal death point is about 50° C. for one hour (Splendore 1908; Moses 1911; Hobbs 1928).

#### RESISTANCE OF CHEMICALS

The virus may survive in 50 percent neutral glycerin at low temperatures for periods of one or more years, but eventually it becomes so attenuated that it produces infections which last two or three weeks and are characterized by large tumors.

Saturated solutions of NaCl destroy the virus in blood within two hours at 32° C., but it may survive for weeks or months in physiological salt solution or Locke solution.

It appears to be unusually resistant to such bactericidal agents as bichloride of mercury, formaldehyde, potassium permanganate, phenol, and hydrogen peroxide (Sanarelli 1898; Moses 1911). Materials used to extract and preserve enzymes, including 100 percent alcohol, toluol, acetone, chloroform, and dioxygen, render equal amounts of saline extracts of virus tissues inactive in fifteen minutes (Hobbs 1928). Lewis and Lewis (1932) observed that mallophone and brom-chlor-phenol inactivated virus in fifteen minutes, due probably to their pH concentration. Of twenty-three other dyes tested, only toluidin blue and certain phenol indophenols had viricidal action.

#### CULTIVATION

*Virus myxomatosis* has not been cultivated on lifeless media. The author observed its survival for seventy-five days in Boeck's amoeba medium and in "K" medium when incubated in an atmosphere of pure helium, but not when exposed to the air or an atmosphere of 10 percent CO<sub>2</sub> and 40 percent O. The virus failed to multiply in cultures of living *Endamoeba histolytica* grown in St. John's wheat medium and incubated at 37° C.

#### PATHOGENICITY OF "VIRUS MYXOMATOSUM"

The inoculation of virulent virus in infective amounts almost invariably produces in susceptible animals the symptoms and pathological lesions characteristic of infectious myxomatosis.

## RELATIVE SUSCEPTIBILITY OF VARIOUS ANIMALS

Infectious myxomatosis has been recognized only among domesticated rabbits of the genus *Oryctolagus*, and of this genus few infected animals recover. The wild hares of the genus *Lepus* and the wild cottontails of the genus *Sylvilagus* are resistant and do not develop clinically recognizable infections. However, in a few instances the inoculation of virus into cottontails has caused a low-grade local inflammatory lesion in which virus has persisted for several weeks.

Sanarelli (1898) inoculated virus into two men, each of whom developed congestion of the conjunctiva with swelling and pain in the eyeball, but showed no further evidence of infection. Two accidental human inoculations observed by the author have caused no recognizable infection during a period of two years. Sanarelli also reported the production of a cancerlike tumor by inoculating virus into the breast of a dog, but subsequent workers (Hobbs 1928; Hyde and Gardner 1933) have failed to infect dogs. The many attempts to infect other animals, including guinea pigs, mice, hamsters, rats, cats, monkeys, horses, chickens, and pigeons, have also been negative. After intracutaneous injections in guinea pigs, the author was unable to demonstrate virus in the blood during a period of ten days.

## ROUTES OF INOCULATION

Infectious myxomatosis may be produced in susceptible rabbits by application of virus to the abraded skin or conjunctiva, by its instillation into the uninjured nasal passages, or by injection into the following tissues: skin, subcutaneous tissues, conjunctiva, eyeball, trachea, heart, vein, muscle, and testicle. Variable results have followed the introduction of virus into the alimentary tract, the peritoneum, and the brain; and it appears that infections produced through these routes may be due to the contamination of traumatized cutaneous or mucous tissues.

## CHANGES IN VIRULENCE

The virus may be so attenuated, by prolonged exposure to glycerin or other chemicals, that there is a delay in the appearance of lesions and death, but the animals usually die if any symptoms are produced. Virulence may be so increased by rapid passage through rabbits that death will occur on the fourth to sixth day, or before the development of typical symptoms. As observed in natural infections, the virus appears to be less virulent than after animal passage in the laboratory.

## SYMPTOMATOLOGY

Sanarelli (1898) found that, in experimentally infected rabbits, the virus was present in the blood after forty-eight hours and that symptoms usually appeared in three to five days. Except for the cutaneous swelling

in cases inoculated through the skin, the first symptom was usually a catarrhal blephero-conjunctivitis. After twenty-four to forty-eight hours both eyes were closed by the swelling and dried exudate. The eyeballs were forced back into their sockets, and at the borders of the eyelids there was a thick, catarrhal, purulent secretion. Simultaneously, small subcutaneous tumors of varying size appeared on different parts of the body, especially about the ears and extremities. The mouth and nose became so swollen that the animal's face had a leonine appearance, and the anus and the genito-urinary tract showed acute inflammatory swellings. In the female there might be hypertrophy of the nipples. There was hyperplasia at all points where skin merged into the mucous membranes. After the development of such symptoms, the animal usually lived two to five days, and at death the body was very much disfigured. The results obtained by other observers have been generally similar.

When the virus is introduced through an abrasion, the skin begins to show, about the third day, a characteristic edematous swelling which increases throughout the disease and in some instances results in a large, raised tumor mass two inches in diameter or larger. In structure the primary tumor and the metastatic swellings are alike.

The development of these lesions appears to depend on factors concerning which information is lacking. There are observations which indicate that large tumors may not always result from attenuation. By inoculating virus into normal and pregnant rabbits, Sprunt (1932) observed in the pregnant animals that the skin lesions were less elevated and that the secondary lesions of the skin and the involvement of the subcutaneous tissues were frequently absent or diminished. On the other hand, the livers of the pregnant rabbits showed a central acidophilic necrosis; secondary lesions in the lungs were more numerous and larger; and the lesions in the spleen were more extensive.

In myxomatosis the temperature reaction is quite irregular, becoming higher than normal at the time of the appearance of symptoms and reaching 104.5 to 105.5. The pulse and respiratory rates are extremely rapid and irregular; and marked dyspnoea and stertorous breathing characterize the late stages of the disease, which terminates with symptoms suggesting asphyxia. There is never any diarrhea, and as a rule the animals are constipated. The urine contains no albumen or casts except just before death. There may be some retention due to constriction of the urethral outlet by the edematous swelling.

The blood becomes more coagulable as the disease progresses. Daily cell counts indicate that the erythrocytes remain practically unchanged. During the first three or four days there is a slight transient decrease in leukocytes, followed by a marked leukocytosis. The disease may last from four days to three or four weeks, and the mortality is almost 100 percent.



## PATHOLOGY

The pathological lesions are characteristic and unique, but investigators have not been in complete agreement as to their nature.

At autopsy Sanarelli (1898) found gelatinous, subcutaneous tumors which were very swollen, elastic, and vascular; and also hypertrophy of the lymph glands, orchitis, and swelling of the spleen. Histological studies indicated that the subcutaneous tumors consisted of typical myxomatous tissues containing many large stellate cells and numerous capillaries. The swellings of the eyelids and of the openings of the body were due to edematous tissues containing the same myxomatous elements. The hypertrophy of the spleen and lymph glands was also due to the myxomatous tissue and to a more or less hemorrhagic infiltration. He concluded that the characteristics of the histological lesions produced by the disease in all the affected organs were quite uniform and that the lesion was a specific myxomatous new growth.

Splendore (1908) reported that many of the myxomatous cells and some of the leukocytes showed specific inclusions which reminded him of the chlamydozoa of trachoma described by Halberstadter and Prowazek. Moses (1911) was unable to demonstrate these inclusions.

Aragao (1911) studied tissue smears stained by Giemsa's method and found in the nuclei of the large stellate cells, masses of small granules which were usually coccoid but occasionally elongate or dumbbell shaped. Considering these granules to be the virus, he proposed for them the designation *Chlamydozoon myxomae*. In 1927 he published a second report in which he called attention to the fact that the tumor lesions are not made up of typical myxomatous tissue, but are of a peculiar, inflammatory nature; that the connective-tissue cells are increased in number and size; and that there is a marked infiltration of polymorphonuclears and other wandering cells. At this time he concluded that the granules formerly described in the nucleus of the stellate cells were not virus, but were produced by degenerative changes. However, he believed that the virus had been demonstrated as round granules of varying size in the cytoplasm of infected cells, and he designated these granules as *Strongyloplasma myxomae*.

Lipschuetz (1927), who was unable to find the inclusions observed by Splendore, considered Aragao's intranuclear bodies to be particles of nuclear chromatin and found no involvement of the epithelium. He observed that when fixed and stained by ordinary methods, the large "myxoma" cells, which he considered histiocytes, contained no abnormal structures. However, when fixed in Regaud's solution and stained with hematoxylin-eosin or by the wet Giemsa method, the cytoplasm appeared crumbly, due to the presence of numerous small bodies which were bacillary or whetstone shaped, irregular in size, and at times almost filled the cytoplasm but never invaded the nucleus. They were found not only in

the so-called myxoma cells, but in the small, moderately swollen, connective-tissue cells in the deeper layers of the cutis and in the cells of the endothelial lining of the intervascular lymph spaces. Considering these bodies to be the cause of the disease, he suggested that they might be a new kind of infectious agent and proposed the designation *Sanarellian cuniculi*.

Rivers (1927) was the first to call attention to the fact that while there seems to be a proliferation of certain cells within the connective tissue, there is also a destruction of epithelial cells. After studying specimens stained with eosin and methylene blue, he remarked, "Upon microscopic examination the first change noted in the epidermal cells is an increase in their size. Then small, pink, granular areas appear in the cytoplasm. These areas rapidly increase in size and frequently involve most of the cytoplasm. In the center of the acidophilic masses, blue, round or rod-shaped bodies are often seen. The cytoplasmic bodies in many respects resemble the Bollinger bodies found in cells affected by the virus of contagious epithelioma of fowls. The disease process in the epidermal cells progresses until there is a complete dissolution of the cells. At this time distinct vesicles appear in the epidermis, which are not unlike the ones encountered in virus diseases that usually attack the skin, e.g., *herpes simplex*. The nature of the acidophilic masses in the epidermal cells described above is as poorly understood as is the nature of any of the inclusions that are associated with many other virus diseases."

Hyde and Gardner (1933) concluded that the stellate, polygonal, or myxomatous cells found in the connective tissues were not swollen histocytes, as suggested by Lipschuetz, but fibroblasts. They were described as "swollen with a greatly enlarged, round to oval nucleus, which may be vesicular to chromidial with a single plasmasome and in some cases many paranucleoli. The nucleolar chromatin appears at times hypertrophied and fragmented. In comparison to the nucleus the cytoplasm is generally hypertrophied and includes numerous granules which in the terminology of Lipschuetz range in size from those of the strongyloplasms to those of large cocci."

In tumors produced by attenuated virus, a majority of the malignant cells showed two more or less symmetrically placed bipolar red bodies in a field of blue protoplasm. The cell nucleus was somewhat enlarged and the chromatin appeared to be undergoing disturbing changes. In the earlier stages of their development the red bodies appeared granular, varying in size and shape so that they looked like accumulations of whetstone- to coccoid-shaped, red-staining granules. In later stages the granules had a more compact arrangement and were collected in two groups at opposite poles of the cell, but the accumulations were not surrounded by a limiting membrane, had no geometric pattern, and appeared to be subjected to the same protoplasmic forces as the surrounding protoplasm. In certain



fibroblasts in which such inclusions were not present, the protoplasm contained small, almost ultramicroscopic, wedge-shaped or whetstone-shaped granules which stained red. The authors were inclined to believe that these red-staining granules represented the actual virus and offer the following explanation for their peculiar bipolar arrangement. "The idea is, that the virus attacks the cell and multiplies in the protoplasm, producing degeneration while the streaming activity of the protoplasm keeps the granules more or less separated. The cell under the influence of the virus is stimulated to the point of initiating division. The centriole then divides, and the two component parts take their position at opposite poles of the cell. Lines of force are thrown between the poles with astral rays characteristic of mitotic division. At this stage the granules migrate to the centrioles, accumulate there as so much driftwood, and form the characteristic inclusion body. The division process is apparently arrested with resulting degeneration and the formation of mucilaginous material."

#### LOCATION OF THE VIRUS IN THE TISSUES

Infective virus is present in most of the tissues and body fluids of infected rabbits. Tissues of the cutaneous lesions are infective throughout the disease (saline suspensions diluted 1-10,000 to 1-1,000,000). The lymph glands also contain large amounts of virus. After forty-eight to seventy-two hours the blood is infective in doses of 0.1, 0.01, 0.001, or 0.0001 cc. Virus has been domesticated in various internal organs, including the spleen, liver, kidney, lungs, brain, spinal cord, and bone marrow, but in some of these tests the results have been variable. The conjunctival and nasal secretions and the mucus attached to feces are infective. However, the urine is not infective at any period of the disease, a fact which is not attributable to its acid reaction.

#### THE TRANSMISSION OF "VIRUS MYXOMATOSUM"

All who have studied the disease have been impressed with the ease with which it may be transmitted by contact. The sick rabbit is continuously contaminating its surroundings with the sticky, highly infective conjunctival and nasal secretions, and at the same time is actively distributing virus along with the feces. On the other hand, the susceptibility of the normal domestic rabbit is great; and infection immediately follows the mere application of these infective materials to abraded skin or conjunctiva, or the introduction of virus into the nose. Sanarelli (1898) thought that animals might be infected by the ingestion of food contaminated with virus, but neither Moses nor Hobbs was able to confirm this observation.

Considering all the available information, it appears that direct contact may be the most important factor in the natural dissemination of virus among the rabbits of a group. However, this fails to account for



certain accidental laboratory infections and for other spontaneous outbreaks in which contact with clinically recognized cases can be excluded. Under these circumstances one may consider several possibilities. In the first place, the infections may be derived from contamination with dried but viable virus, which may remain infective for periods of six days to two months, depending on the manner in which it is dried. Another possible source is contact with some now unrecognized natural host of the virus—either animal, bird, reptile, insect, or plant. A third possibility, and one which is worthy of serious consideration, especially in attempting to explain the simultaneous appearance of infections in geographically separated groups of rabbits, is transmission through the agency of insects. Three methods of insect dissemination suggest themselves: (1) transfer by insects contaminated with the eye and nose secretions; (2) mechanical transfer by the interrupted feeding of blood-sucking insects; and (3) biological transmission by biting insects susceptible to infection with the virus. The author obtained negative results in experimental attempts to infect ticks (*Amblyomma cajennense*), cockroaches, and *Aedes aegypti* with *Virus myxomatosum*.

#### IMMUNIZATION STUDIES WITH "VIRUS MYXOMATOSUM"

Prophylactic vaccination with subinfective amounts of virus or with virus inactivated by heat or chemicals has not been of practical value. In a few instances the use of vaccines has been followed by recovery from the subsequent test infection; and in one case reported by Fisk and Kessel (1931) and in another observed by the author, the vaccinated rabbit was completely resistant to subsequent inoculations with infective doses of virus. Specific protective, neutralizing substances have been demonstrated in the serum of such recovered animals. The inoculation of virus into naturally resistant animals, such as guinea pigs, does not produce such neutralizing substances.

The available information indicates that, while satisfactory methods of vaccination have not yet been developed, it is at least possible to prepare vaccines which will confer a strong protective immunity. In such a vaccine the virus must be so attenuated that it will not produce a fatal infection, yet it should be alive in order to produce immunity. Apparently such a delicate state of balance between life and death of the virus is not easily secured by the methods which have been used, but it should be possible through the development of new methods.

#### IMMUNOLOGICAL RELATIONSHIP BETWEEN INFECTIOUS MYXOMATOSIS AND SHOPE'S INFECTIOUS FIBROMA OF RABBITS

In 1928 Shope discovered a nonfatal disease in a wild cottontail, designated as infectious fibroma, and showed that it is caused by a filterable virus and is transmissible to both the wild and the domestic

- (1) AN INVESTIGATION OF THE REACTION BETWEEN THE GRIGNARD REAGENT AND DIAZONIUM SALTS.
- (2) THE PREPARATION OF A NEW CLASS OF SOLID DIAZONIUM SALTS AND THEIR USE IN THE IDENTIFICATION OF PHENOLS AND PHENOL ETHERS.

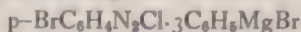
By DONALD LINDSAY VIVIAN<sup>1</sup>

In spite of the great importance and widespread use in organic chemistry of both the Grignard reagent and the diazonium salts, the literature contains no definite information relative to the action of these two classes of compounds upon each other. It was therefore thought that an investigation into this reaction might prove of interest.

Work was carried out on the reaction between phenylmagnesium bromide and benzenediazonium chloride under various conditions, including cooling with solid carbon dioxide, but the reaction seemed to be uncontrollable and gave as almost the only product a thick, black tar. The same results were obtained when ethylmagnesium bromide was used with benzenediazonium chloride.

Somewhat more encouraging results were obtained when a more stable diazonium salt, *p*-bromobenzenediazonium chloride, was substituted for the benzenediazonium chloride in the reaction with phenylmagnesium bromide, for in this case there was obtained quite a large amount of a dark purple solid which was apparently a molecular compound between the Grignard reagent and the diazonium salt.

This last product resisted all efforts to obtain any identifiable compounds from it, however, and as it was decomposed by water and insoluble in all other solvents tried, it could not be purified sufficiently for its formula to be definitely established, although the formula—



is tentatively proposed.

The work with the *p*-bromobenzenediazonium chloride had suggested that there might be possibilities in attempting to prepare some new diazonium salts which would exhibit an even greater stability than do the halogenated ones known at present. Attention was turned to this new problem, with the idea in mind that, if efforts to find such stable diazonium salts were successful, the latter might be used in qualitative organic analysis as reagents for the preparation of derivatives from phenols and phenol ethers.

<sup>1</sup> Ph.B. 1929, Yale University; Ph.D. conferred June 6, 1934.

Through the use of *trichloroacetic acid* it was found possible to prepare diazonium salts having the general formula:  $\text{RN}_2\text{OCOCCL}_3 \cdot \text{CCl}_3\text{COOH}$ . These diazonium acid trichloroacetates were found to exhibit a surprising degree of stability towards heat and shock, decomposing without deflagration when warmed and showing no change when subjected to blows of a hammer. Moreover, they could be kept for a month in a desiccator away from light without becoming more than very slightly colored.

Hence it appears that these salts may prove very useful as ordinary laboratory reagents which can be made up in moderately large quantities and kept on hand for use as needed. It was to illustrate this use that one of the salts, 2,5-dichlorobenzenediazonium acid trichloroacetate, was used to prepare azo compounds from a total of twenty-one phenols and phenol ethers. These azo compounds have definite enough melting points to make them of service as derivatives.

It was also found possible to prepare some diazonium trichloroacetates free from the combined trichloroacetic acid, and these were found far more explosive than the diazonium acid trichloroacetates, showing that the stability of the latter is due to the formation of the molecular complex with trichloroacetic acid.

A method of reverse diazotization was found to be of great value in the preparation of solid diazonium salts in general.





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1933-34





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WASHINGTON  
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WASHINGTON, D. C.

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1934

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# THE UNIVERSITY CALENDAR

1933-34

Date	Days	Occasion
1933:		
September 18-19...	Monday and Tuesday	Registration period for the first semester
September 18.....	Monday .....	Pre-session examinations in the School of Medicine
September 20.....	Wednesday .....	Academic year begins
September 22-23...	Friday and Saturday	Examinations in the Junior College, Columbian College, and the School of Government for students who wish to qualify for advanced courses
		Intelligence tests and physical examinations for entering students
September 23.....	Saturday .....	Last day for receiving theses of candidates for the degree of Master of Arts in October
		University entrance examinations
October 3.....	Tuesday .....	Last day for late registration for the first semester
		Last day on which candidates may file thesis subjects for the degree of Master of Arts to be received in February
October 12.....	Thursday .....	Stated meeting of the Board of Trustees
October 18.....	Wednesday .....	Fall Convocation
November 1.....	Wednesday .....	Last day on which candidates may file thesis subjects for the degrees of Doctor of Philosophy and Doctor of Education to be received the following June
		Thanksgiving recess
November 30-December 2	Thursday to Saturday, both dates inclusive	
December 14.....	Thursday .....	Stated meeting of the Board of Trustees
December 21-January 2	Thursday to Tuesday, both dates inclusive	Christmas recess
1934:		
January 3.....	Wednesday .....	Classes resumed
January 8.....	Monday .....	Last day for applications for degrees and Junior Certificates to be conferred in February
		Last day for receiving theses of candidates for the degrees of Doctor of Philosophy and Doctor of Education in February

## THE UNIVERSITY CALENDAR—Continued

Date	Days	Occasion
January 8-19.....	Monday to Friday, both dates inclusive	Preregistration period for the second semester
January 20-27.....	Saturday to Satur- day, both dates in- clusive	Midyear examination period
January 22.....	Monday.....	Last day for receiving theses of candidates for the degree of Master of Arts in February
January 31-Febru- ary 1	Wednesday and Thurs- day	Registration period for the sec- ond semester
February 2.....	Friday.....	Classes resumed for the second semester
February 2-3.....	Friday and Saturday	Examinations in the Junior Col- lege, Columbian College, and the School of Government for students who wish to qualify for advanced courses
February 3.....	Saturday.....	University entrance examinations
February 8.....	Thursday.....	Stated meeting of the Board of Trustees
February 15.....	Thursday.....	Last day on which candidates may file thesis subjects for the degree of Master of Arts to be received in June
February 22.....	Thursday.....	Last day for late registration for the second semester
March 1.....	Thursday.....	Midwinter Convocation. Holiday
March 8.....	Thursday.....	Applications for fellowships for 1934-35 should be filed
March 30-April 4..	Friday to Wednes- day, both dates in- clusive	Stated meeting of the Board of Trustees
May 1.....	Tuesday.....	Easter recess
		Last day for receiving theses of candidates for the degrees of Doctor of Philosophy and Doc- tor of Education in June
		Last day on which candidates may file thesis subjects for the degrees of Doctor of Philoso- phy and Doctor of Education to be received the following February
		Last day for applications for de- grees and Junior Certificates to be conferred in June
May 15.....	Tuesday.....	Last day for receiving theses of candidates for the degree of

THE UNIVERSITY CALENDAR—Continued

Date	Days	Occasion
May 15 (contd.)....	Tuesday.....	Master of Arts and for the professional degrees in Engineering in June Applications for scholarships for 1934-35 should be filed
May 16-June 2....	Wednesday to Saturday, both dates inclusive	Final-examination period in the Law School
May 25-June 2....	Friday to Saturday, both dates inclusive	Final-examination period in all Schools and Divisions except the Law School
May 30.....	Wednesday.....	Memorial Day. Holiday
May 31.....	Thursday.....	Annual meeting of the Board of Trustees
June 3.....	Sunday.....	Baccalaureate Sermon
June 6.....	Wednesday.....	Commencement
June 11.....	Monday.....	Instruction begins in the nine weeks' term in the Summer Sessions
July 2.....	Monday.....	Instruction begins in the first summer term of the Law School
July 25.....	Wednesday.....	Instruction begins in the six weeks' term in the Summer Sessions
July 26.....	Thursday.....	First summer term in the Law School ends
August 11.....	Saturday.....	Second summer term in the Law School begins
		Six weeks' summer term ends in all Schools and Divisions except the Law School
		Nine weeks' summer term ends in all Schools and Divisions except the Law School
September 8.....	Saturday.....	Second summer term in the Law School ends
September 17-18...	Monday and Tuesday.	Registration period for the first semester of the academic year 1934-35





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HARRY FRIEDENBERG, A.B., M.D., <i>Clinical Instructor in Medicine.</i>	1710 Lanier Pl.
WILLIAM THOMAS FRYER, A.B., LL.B., J.D., <i>Associate Professor of Law.</i>	2229 Bancroft Pl.
HOMER GIFFORD FULLER, Ph.B., M.D., <i>Clinical Professor of Urology.</i>	1616 Belmont St.
EUGENIA GALTSOFF, <i>Associate in Zoology.</i>	2707 Adams Mill Rd.
CHRISTOPHER BROWNE GARNETT, JR., Ph.D., <i>Assistant Professor of Philosophy.</i>	600 Rock Spring Drive, Cherrydale, Va.
MARTHA GIBBON, A.M., <i>Assistant Professor of English.</i>	1746 K St.
RALPH EDWARD GIBSON, Ph.D., <i>Professorial Lecturer in Chemistry.</i>	415 Cumberland Ave., Chevy Chase, Md.
RALEIGH GILCHRIST, Ph.D., <i>Lecturer in Chemistry.</i>	4939 30th Pl.
STEWART MAXWELL GRAYSON, M.D., <i>Clinical Instructor in Surgery.</i>	1833 New Hampshire Ave.
ROBERT FISKE GRIGGS, Ph.D., <i>Professor of Botany.</i>	39 E. Bradley Lane, Chevy Chase, Md.
J. BLAINE GWIN, A.B., <i>Lecturer in Sociology.</i>	3806 T St.
FRANCIS RANDALL HAGNER, M.D., <i>Professor of Urology.</i>	1824 19th St.
JULIA LETHELD HAHN, Ph.D., <i>Professorial Lecturer in Education.</i>	3133 Connecticut Ave.
GLADYS CHRISTINE HALDEMAN, B.S., <i>Associate in Home Economics.</i>	1762 N St.
CUSTIS LEE HALL, M.D., <i>Assistant Professor of Surgery.</i>	3920 Harrison St.
GILBERT LEWIS HALL, A.B., LL.B., <i>Lecturer in Law.</i>	21 Woodstock St., Clarendon, Va.
ROSCOE WILLIS HALL, Ph.B., M.D., <i>Clinical Professor of Psychiatry.</i>	St. Elizabeth's Hospital.
CHARLES ROBERT LEE HALLEY, A.B., M.D., <i>Associate in Medicine.</i>	903 16th St.

WILLIAM FERGUSON HAMILTON, Ph.D., <i>Assistant Professor of Physiology.</i>	Memorial Drive, Ballston, Va.
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HAROLD FRIEND HARDING, A.M., <i>Assistant Professor of Public Speaking.</i>	2005 Eye St.
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ROBERT HOWE HARMON, A.B., M.D., <i>Clinical Instructor in Medicine; Associate University Physician.</i>	3133 Connecticut Ave.
JOSEPH HARRIS, A.B., M.D., <i>Associate in Obstetrics and Gynecology.</i>	1310 Randolph St.
ADELAIDE HASSE, <i>Lecturer in Library Science.</i>	Silver Spring, Md.
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GEORGE NEELY HENNING, A.M., Litt.D., <i>Professor of Romance Languages.</i>	3720 McKinley St.
VALENTINE MARTIN HESS, M.D., <i>Clinical Instructor in Surgery.</i>	1746 K St.
CHARLES EDWARD HILL, Ph.D., <i>Professor of Political Science.</i>	1303 Floral St.
SAMUEL LOUIS HILTON, Ph.D., <i>Lecturer on Incompatibilities.</i>	111 Quincy St., Chevy Chase, Md.
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FRANK ARTEMAS HITCHCOCK, M.S., C.E., <i>Professor of Civil Engineering.</i>	5101 38th St.
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HERMAN SOLOMON HOFFMAN, A.B., M.D., <i>Associate in Medicine.</i>	4524 4th St.
CHESTER ALLEN HOGENTOGLER, C.E., <i>Lecturer on Highway Engineering.</i>	1927 37th St.
GEORGE ARNOLD HOLM, B.S., M.D., <i>Clinical Instructor in Medicine.</i>	3900 Connecticut Ave.

FRANK ADELBERT HORNADAY, M.S., M.D., <i>Assistant Professor of Medicine; Assistant Director of Admissions; University Physician.</i>	The Mayflower.
ALEC HORWITZ, M.S., M.D., <i>Associate in Surgery.</i>	4715 16th St.
DAVID HALBERT HOWARD, JR., Ph.D., <i>Instructor in Chemistry.</i>	2033 G St.
CHARLES PERRY HOWZE, M.D., <i>Associate in Urology.</i>	Cordova Apts.
HENRY FURNESS HUBBARD, A.M., <i>Instructor in Psychology.</i>	3133 Connecticut Ave.
RALPH HOSKINS HUDSON, Graduate U. S. Naval Academy, LL.B., <i>Lecturer in Law.</i>	2031 F St.
ARTHUR HOWARD HUGHES, Ph.D., <i>Assistant Professor of German.</i>	2033 G St.
THELMA HUNT, Ph.D., <i>Assistant Professor of Psychology.</i>	1800 K St.
WILLIAM ARMSTRONG HUNTER, A.B., LL.M., <i>Associate Professor of Law.</i>	6218 30th St.
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GEORGE BAIN JENKINS, M.D., <i>Professor of Anatomy.</i>	1336 Ingraham St.
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ARTHUR FREDERICK JOHNSON, M.E., <i>Professor of Mechanical Engineering.</i>	37 Oakridge Blvd., Oakcrest, Va.
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\* On leave second semester 1933-34.



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HARRY KAPLAN, D.D.S., <i>Clinical Instructor in Surgery.</i>	The Broadmoor.
HERMAN HENRY KAVELER, Ph.D., <i>Instructor in Chemistry.</i>	Corcoran Courts.
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HERMAN EUGENE KITTREDGE, M.D., <i>Clinical Instructor in Dermatology and Syphilology.</i>	808 22d St.
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*WALTER BARTOW LAWRENCE, B.S. IN M.E., <i>Lecturer in Mechanical Engineering.</i>	711 Mt. Vernon Pl.
GUY WHITMAN LEADBETTER, B.S., M.D., <i>Associate in Surgery.</i>	4437 Cathedral Ave.
JOHN WILLIAM LEE, B.S. IN PHAR., <i>Instructor in Pharmaceutical Chemistry.</i>	1701 Rhode Island Ave.
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MAX ALLEN LETT, M.S. IN M.E., <i>Instructor in Mechanical Engineering.</i>	1337 Montague St.
NOLAN DON CHARPENTIER LEWIS, M.D., <i>Clinical Professor of Psychiatry.</i>	St. Elizabeth's Hospital.
JOHN EDWARD LIND, M.D., <i>Clinical Instructor in Psychiatry.</i>	St. Elizabeth's Hospital.
WILLIAM MOORE LOMAN, A.M., <i>Lecturer in Psychology.</i>	3327 18th St.
HUBERT SCOTT LORING, PH.D., <i>Instructor in Biochemistry.</i>	1816 H St.
LOUIS LEON LUDLOW, JR., B.S. IN M.E., <i>Associate in Mechanical Engineering.</i>	1822 H St.
JOHN HUGH LYONS, M.S., M.D., <i>Associate in Surgery.</i>	1327 21st St.
HENRY COOK MACATEE, M.D., <i>Clinical Professor of Pediatrics.</i>	2324 California St.
WILLIAM THOMAS McCLOSKEY, A.B., <i>Associate in Zoology.</i>	5120 7th St.
JOHN ALBERT McINTIRE, A.B., LL.B., <i>Assistant Professor of Law; Editor of "The George Washington Law Review".</i>	5521 Colorado Ave.
COLIN MACKENZIE MACKALL, PH.D., <i>Professor of Chemistry.</i>	2033 G St.
EARL BALDWIN McKINLEY, A.B., M.D., <i>Professor of Bacteriology; Dean of the School of Medicine.</i>	Wardman Park Hotel.
MARVIN McDUGALD McLEAN, M.D., <i>Clinical Instructor in Medicine.</i>	1551 Newton St. NE.

\* On leave 1933-34.

## Staff of Instruction

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PRESTON ALEXANDER McLENDON, B.S., M.D., <i>Assistant Professor of Pediatrics.</i>	2002 R St.
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WILLIAM JOHNSTON MALLORY, A.M., M.D., <i>Professor of Medicine.</i>	1720 Connecticut Ave.
NICHOLAS ATHANASIOU MANDELOS, M.D., <i>Clinical Instructor in Medicine.</i>	711 Quincy St.
WILLIAM BERRY MARBURY, M.D., <i>Assistant Professor of Surgery.</i>	1403 21st St.
CHARLES MARTEL, <i>Professorial Lecturer in Library Science.</i>	300 S. Carolina Ave. SE.
CLOYD HECK MARVIN, Ph.D., LL.D., <i>President of the University.</i>	The University.
LYLE MILLAN MASON, M.D., <i>Clinical Instructor in Urology.</i>	1321 21st St.
WILLIAM BEVERLEY MASON, M.D., <i>Professor of Oto-rhino-laryngology.</i>	1738 M St.
FLORENCE MARIE MEARS, Ph.D., <i>Assistant Professor of Mathematics.</i>	512 Park Lane, Bethesda, Md.
CLARENCE ALTHA MILLER, LL.M., <i>Lecturer in Law.</i>	4416 Greenwich Parkway.
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JAMES FARNANDIS MITCHELL, A.B., M.D., <i>Clinical Professor of Surgery.</i>	1344 19th St.
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JAMES OLIVER MURDOCK, Ph.B., LL.B., <i>Lecturer in Law.</i>	1824 23d St.
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\* On sabbatical leave first semester 1933-34.



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FRED EVERETT NESSELL, A.B., <i>Lecturer in English; Registrar of the University.</i>	4400 Volta Pl.
JULIUS SALEM NEVIASER, A.B., M.D., <i>Clinical Instructor in Surgery.</i>	1758 Lanier Pl.
MARGARET MARY NICHOLSON, A.B., M.D., <i>Clinical Instructor in Pediatrics.</i>	1000 Maryland Ave. NE.
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GEORGE NORDLINGER, A.B., M.D., <i>Associate in Obstetrics and Gynecology.</i>	2737 Devonshire Pl.
BERNARD NOTES, M.D., <i>Clinical Instructor in Obstetrics and Gynecology.</i>	2925 Ordway St.
FREDERICK CHARLES O'CONNELL, LL.M., <i>Associate in Law and Clerk of the Moot Court.</i>	1108 Allison St.
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MILES PARKER OMOHUNDRO, M.D., <i>Associate in Urology.</i>	2440 16th St.
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GILBERT OTTENBERG, A.M., M.D., <i>Clinical Instructor in Urology.</i>	3465 14th St.
RICHARD NORMAN OWENS, Ph.D., C.P.A., <i>Professor of Accounting and Business Administration.</i>	178 Key Blvd., Lyon Village, Va.
KATHERINE ELIZABETH PARKER, A.M., M.D., <i>Associate in Zoology.</i>	6312 Meadow Lane, Chevy Chase, Md.
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JOHN RALSTON PATE, A.B., B.S., M.D., <i>Teaching Fellow in Anatomy.</i>	1335 H St.
PHILIP OSCAR PELLAND, M.D., <i>Clinical Instructor in Surgery.</i>	1345 Vermont Ave.

## Staff of Instruction

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JAMES EBENEZER PIXLEE, B.S., <i>Professor of Physical Education for Men; Director of Men's Athletics.</i>	Westchester Apts.
ROSS E. POLLOCK, JR., A.M., <i>Teaching Fellow in Psychology.</i>	1316 Delafield Pl.
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JOHN ALTON REED, A.B., M.D., <i>Associate in Medicine.</i>	3309 35th St.
FREDERICK AUGUST REUTER, M.D., <i>Clinical Professor of Urology.</i>	1337 Park Rd.
EDWARD ELLIOTT RICHARDSON, M.D., PH.D., <i>Elton Professor of Mental and Moral Philosophy.</i>	1001 Alabama Ave. SE.
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\* On sabbatical leave 1933-34.

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CHARLES ROSENBERG, A.M., <i>Instructor in Pathology.</i>	5100 7th St.
GEORGE BYRON ROTH, A.B., M.D., <i>Professor of Pharmacology.</i>	3814 T St.
WILLIAM CARL RUEDIGER, Ph.D., <i>Professor of Education; Dean of the School of Education.</i>	2836 28th St.
WILLIAM WARREN SAGER, M.S., M.D., <i>Associate in Surgery.</i>	4330 Klinge St.
JAMES AUGUSTIN ST. OMER ROY, B.S. IN E.E., <i>Associate in Mechanical Engineering.</i>	3304 18th St. NE.
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RAYMOND JOHN SEEGER, Ph.D., <i>Assistant Professor of Physics.</i>	Potomac Park Apts.
EDWARD HENRY SEHRT, Ph.D., <i>Professor of German.</i>	1844 Columbia Rd.
JEAN ELYLE SEXTON, A.B., <i>Instructor in Physical Education for Men.</i>	Park Lane Apts.
HYMAN DAVID SHAPIRO, M.D., <i>Clinical Instructor in Neurology.</i>	4218 16th St.
ERNEST SEWALL SHEPARD, A.M., <i>Assistant Professor of English.</i>	• 3267 N St.



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\* On sabbatical leave first semester 1933-34.

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\* On sabbatical leave 1933-34.

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DUDLEY WILSON WILLARD, Ph.D., <i>Professor of Sociology.</i>	4430 Q St.
HENRY JOSEPH WING, Ph.D., <i>Associate in Physics.</i>	4105 Wisconsin Ave.
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WILLIAM GLENN YOUNG, M.D., <i>Clinical Instructor in Urology.</i>	3833 Garfield St.
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GEORGE MARTIN KOEHL, A.B., <i>Sanders Fellow in Physics.</i>	2115 F St.
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THE UNIVERSITY



## HISTORY AND ORGANIZATION

### HISTORY

The idea of a university located in the Capital of the Nation was sponsored by George Washington, who during his public life urged the establishment of such an institution and in his will left fifty shares of stock in the Potomac (Canal) Company for the endowment of a university to be established in the District of Columbia "to which the youth of fortune and talents from all parts thereof might be sent for the completion of their Education in all the branches of polite literature;—in arts and Sciences,—in acquiring knowledge in the principles of Politics & Good Government".

In furtherance of that hope and project of the first President of the United States, this University, founded as Columbian College and now named The George Washington University, was established. The stock which General Washington willed toward such an institution became valueless owing to the failure of the canal properties, and it was necessary for "the College" established in the District of Columbia to obtain funds from other sources.

In 1819 the Reverend Luther Rice, a Baptist missionary, formed an association to buy land for the use of a college in the city of Washington. With General Washington's idea in mind, John Quincy Adams, Secretary of State of the United States; William H. Crawford, Secretary of the Treasury; John C. Calhoun, Secretary of War; William Wirt, Attorney General; and Return J. Meigs, Postmaster General, became patrons of the new college and, together with thirty-two members of Congress, contributed to a fund raised for the purchase of the land and the development of the work.

From this fund a tract of approximately forty-seven acres, "extending about one-half mile northwest of Boundary Street (Florida Avenue) between 14th and 15th Streets", was purchased, and Columbian College in the District of Columbia under the distinguished favor of James Monroe, President of the United States, and his Cabinet, was chartered by an act of Congress of February 9, 1821.

By 1822 the main building was completed sufficiently to use. Dr. William Staughton was elected first President of the institution. Two years later, when the first commencement was held on December 15, 1824, President Monroe, John Quincy Adams, John C. Calhoun, Henry Clay, and the Marquis de Lafayette headed the eminent company attending the exercises.

The School of Medicine, established in 1821, was formally opened in 1825 and has been in continuous operation since that time. In 1826 the Law School was organized, to be discontinued the following year and re-established in 1865. It is the oldest law school in Washington.



By an act of Congress of March 3, 1873, the name of the college was changed to "Columbian University", in recognition of the enlarged scope of the institution. The following year the institution was moved from its first location on "College Hill", now Columbia Heights, to the new University Hall built for it at Fifteenth and H Streets. Nearby buildings accommodated the Medical and Preparatory Schools.

By an act of Congress of January 23, 1904, the University was removed from the denominational control under which it had operated for the previous six years, and was provided with a self-perpetuating Board of Trustees empowered to change its name. In accordance with this act, the title "The George Washington University" was adopted in the same year.

Subsequently all the Schools and Divisions of the University except the School of Medicine, which is situated on H Street between Thirteenth and Fourteenth Streets, were brought together at the present location on or immediately surrounding the city block bounded by Twentieth, Twenty-first, G, and H Streets.

In 1930 a new plan of academic organization was effected, resembling in principle the master-apprentice relation of the old guild system. The University as it is now organized consists of a Junior College, comprising the work of the freshman and sophomore years; a Senior College, known as "Columbian College", which awards the Bachelor's and Master's degrees; a Council for Graduate Study; the professional Schools and Divisions; the Division of University and Extension Students; and the Summer Sessions.

#### LOCATION

The George Washington University is located in the heart of the city of Washington, a short distance from the Potomac River and the Mall. Within a few blocks are the White House and the offices of many of the Departments of the Government, including the Department of State, the Treasury Department, the War Department, the Navy Department, the Department of Justice, the Department of the Interior, and the Department of Labor. The Corcoran Gallery of Art, the Pan American Union Building, and the National Academy of Sciences are also nearby, and the Capitol and the Library of Congress can be reached by street car in twenty minutes from any of the University buildings.

#### GOVERNMENT

The government and general educational management of The George Washington University is vested in a self-perpetuating Board of thirty-three Trustees, with the President of the University an ex-officio member. These thirty-three elected members of the Board are named for a period of three years and are divided into three classes of eleven members each. The members of one class are elected at each annual meeting to fill the

places of the members whose terms of office expire. Two members of each class are nominated by the Alumni Association. "Persons of every religious denomination shall be capable of being elected Trustees."

#### ENDOWMENT

The endowment of The George Washington University, not including the value of buildings, grounds, and equipment, is \$1,670,245.

#### THE COLLEGES, SCHOOLS, AND DIVISIONS

The George Washington University offers courses in twelve Colleges, Schools, and Divisions, including the Junior College; Columbian College, the senior college of letters and sciences; the Graduate Council; the School of Medicine; the Law School; the School of Engineering; the School of Pharmacy; the School of Education; the School of Government; the Division of Library Science; the Division of Fine Arts; the Division of University and Extension Students; and the Summer Sessions.

## EDUCATIONAL FACILITIES

### BUILDINGS

Buildings, grounds, and equipment are valued at \$3,500,000.

The buildings of the Junior College, Columbian College, the Graduate Council, the Law School, the School of Engineering, the School of Pharmacy, the School of Education, the School of Government, the Division of Library Science, the Division of Fine Arts, and the Division of University and Extension Students, are grouped in the vicinity of Twenty-first and G Streets NW. The School of Medicine, the University Hospital, and the Dispensary are situated at Fourteenth and H Streets NW. The buildings of the University are as follows:

Administration Building, building A, 2100 G Street. The Offices of the President and Provost, and the Council Room of the Board of Trustees.

Architecture Building, building E, 2101 G Street. The Division of Fine Arts, including the Architecture library, and drawing and lecture rooms.

Botany Building, building H, 2027 G Street. The Junior College and Columbian College administration offices; laboratories, classrooms, offices, and the library of the Department of Botany.

Corcoran Hall, building W, 725 Twenty-first Street. Named in honor of the late William W. Corcoran, benefactor of the University, President of the Corporation, and a member of the Board of Trustees from 1869 to 1888. The University Assembly Hall, classrooms, and the chemical and accounting laboratories.

Education Building, building D, 2022 G Street. Office of the Dean of the School of Education, classrooms, Faculty offices, and student club rooms.

Engineering Laboratory, building X, 735 Twenty-first Street. Engineering testing laboratories, general laboratories, drafting rooms, and classrooms.

Gymnasium, building T, 2010-12 H Street. Offices of the Department of Physical Education for Men, the Men's Athletic Director, and the Graduate Manager of Student Publications.

Home Economics Building, building C, 2024 G Street. Classrooms and laboratories of the Department of Home Economics.

Hospital and Dispensary, 1339 H Street.

Lisner Hall, building J, 2023 G Street. Named in honor of Abram Lisner, benefactor of the University and member of the Board of Trustees. The General Library; office of the Director of the Division of Library Science; Faculty offices; classrooms; the Electrical Engineering, Geology, and Physics laboratories; and the Fine Arts drafting rooms.

Medical School, 1335 H Street. Offices of the staff of the School of Medicine; lecture rooms and classrooms; Anatomy, Bacteriology, Biochemistry, Histology and Embryology, Physiology, Pharmacology, and Pathology laboratories; students' rooms; the Medical Library.

Pharmacy Building, building U, 2020 H Street. Office of the Dean of the School of Pharmacy, lecture rooms, laboratories, and library of the School of Pharmacy.



- Physical Education for Women, building R, 714-16 Twentieth Street. Offices and locker rooms of the Department of Physical Education for Women.
- Psychology Building, building B, 2026 G Street. Classrooms, office of the Department of Psychology, and the psychological laboratory.
- Public Speaking Building, building Q, 712 Twentieth Street. Offices and studios of the Department of Public Speaking.
- Registration Building, building G, 2031 G Street. Offices of the Registrar and the Director of Admissions.
- Stockton Hall, building S, 720 Twentieth Street. Named in honor of the late Rear Admiral Charles Herbert Stockton, President of the University from 1910 to 1918. Offices, lecture halls, and library of the Law School.
- Summer Sessions Building, building O, 702 Twentieth Street. Offices of the Dean of the Summer Sessions, the Adviser to Foreign Students, and the Department of Romance Languages and Literatures.
- Woodhull Administration Building, building F, 2033 G Street. Named in honor of the late General Maxwell Van Zandt Woodhull, Trustee of the University and donor of the building. Offices of the Comptroller, the business offices, and the Faculty club room.
- Women's Building, building Z, 714 Twenty-first Street. Offices of the Director of Women's Personnel Guidance and the Placement Bureau, and rest rooms for women students.
- Zoology Building, building I, 2025 G Street. Offices, laboratories, and classrooms of the Department of Zoology.
- Building K, 2019 G Street. Offices of the Department of Economics and classrooms.
- Building L, 2017 G Street. Offices of the Department of English and the Department of Classical Languages and Literatures, and classrooms.
- Building M, 2009-11 G Street. Offices of the Alumni Secretary, the School of Government, the Department of Political Science, the Department of Sociology, and the Department of Philosophy.
- Building N, 700 Twentieth Street. Offices of the Director of the Division of University and Extension Students and the Department of History.
- Building P, 704 Twentieth Street. Classrooms and the zoological research laboratory.
- Building V, 2024-26 H Street. Offices and library of the School of Engineering, and offices of the Department of Mathematics.

### THE UNIVERSITY LIBRARY

The University Library, which comprises the General Library, the various departmental and seminar libraries, the Medical Library, and the Law Library, contains more than 100,000 volumes.

The General Library includes, in addition to the general collection, the library of the late Professor Richard Heinzel, of the University of Vienna, which contains 7,200 books and pamphlets in Germanic philology and literature and cognate branches; the library of the late Professor Curt Wachsmuth, of the University of Leipzig, which contains 7,900 books

and pamphlets in Greek and Roman literature, archeology, and history; the Mount Vernon Alcove, which contains 4,000 volumes in political history, international law, and the social sciences; a representative collection of Spanish-American books, the gift of the Governments of Hispanic America; the Chauncey Mitchell Depew Public Speaking Library of approximately 500 volumes, the gift of Mrs. Chauncey M. Depew; and the library of the Division of Fine Arts, which contains over 2,000 volumes, mainly on architecture, and the Russell Sturgis collection of 7,500 mounted photographs. About 1,000 of these latter volumes constitute a collection made available by the American Institute of Architects, to whom the library is always accessible.

The departmental and seminar libraries are as follows:

Botany—building H, 2027 G Street  
 Chemistry—Corcoran Hall, fourth floor  
 Engineering—building V, 2024 H Street  
 Fine Arts—building E, 2101 G Street  
 Library Science—Lisner Hall, room 21  
 Mathematics—building V, 2026 H Street  
 Pharmacy—building U, 2020 H Street  
 Physics—Lisner Hall, room 23  
 Public Speaking—building Q, 712 Twentieth Street  
 Zoology—building I, 2025 G Street

The General Library, in Lisner Hall, building J, 2023 G Street, is open from 8.45 a.m. to 10.30 p.m. each school day, and from 3 to 9 p.m. on Sundays.

The Law Library, in Stockton Hall, building S, 720 Twentieth Street, is open from 9 a.m. to 11 p.m. each school day, and from 2 to 6 p.m. on Sundays. It contains more than 16,500 volumes.

The Medical Library, at 1335 H Street, contains more than 3,000 volumes. It is open from 9 a.m. to 5 p.m. and from 7 to 9 p.m. each school day.

#### OTHER LIBRARY FACILITIES

Students have access also to the Library of Congress; the Public Library of the District of Columbia and its branches; the Library of the Carnegie Endowment for International Peace; the Library of the Pan American Union; the Library of the Bureau of Railway Economics; the Library of the United States Department of Agriculture, with its scientific departmental collections; the Library of the United States Office of Education; the Army Medical Library; the Library of the Smithsonian Institution; and many of the other great special collections of the Government Departments.

#### GOVERNMENTAL INSTITUTIONS ACCESSIBLE TO STUDENTS

In order to promote research and the diffusion of knowledge, the Congress of the United States has made the scientific resources of the

Government accessible to students under the terms of the following joint resolution, approved April 12, 1892:

*Resolved by the Senate and House of Representatives of the United States of America, in Congress assembled,* That the facilities for research and illustration in the following and any other Governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia, to wit:

- One. Of the Library of Congress.
- Two. Of the National Museum.
- Three. Of the Patent Office.
- Four. Of the Bureau of Education.
- Five. Of the Bureau of Ethnology.
- Six. Of the Army Medical Museum.
- Seven. Of the Department of Agriculture.
- Eight. Of the Fish Commission.
- Nine. Of the Botanic Gardens.
- Ten. Of the Coast and Geodetic Survey.
- Eleven. Of the Geological Survey.
- Twelve. Of the Naval Observatory.

#### HOURS OF INSTRUCTION

There are both morning and late afternoon sections in most courses of instruction, and many other courses are given in the morning and in the late afternoon in alternate years; thus students may take work during the forenoon and early afternoon or in the period between 5.10 and 7 p.m. according to their convenience. By taking the late afternoon, or the late afternoon and summer courses, and by extending the time of study beyond the customary four years, a student able to give only part time to college work may complete a curriculum and obtain a degree.

The courses of instruction, with the hours when the courses are offered, are listed in alphabetical order beginning on page 201.



## ADMISSION

All departments of the University accept men and women.

Students may enter any School or Division of the University except the School of Medicine and the Law School at the beginning of either semester or either of the summer terms. Entrance to the School of Medicine is permitted only at the beginning of the first semester of the academic year. Entrance to the Law School is permitted at the beginning of either semester and at the beginning of the first summer term.

### INFORMATION REGARDING ADMISSION

Students who wish to obtain information as to curricula or courses offered, and as to entrance requirements or procedure, are requested to write to or confer with the Director of Admissions, 2031 G Street NW., Washington, D. C.

*Timely inquiry helps to avoid difficulties in meeting entrance requirements.* Students contemplating the study of Medicine or Engineering are particularly urged to make early inquiry regarding entrance requirements. Likewise, students who are now enrolled in other higher institutions of learning, but who contemplate later transfer to this University as candidates for degrees, are advised to consult the Director of Admissions regarding courses in which they should register prior to transfer, as the possibility of loss of credit is thus minimized.

### APPLICATION FOR ADMISSION

Students desiring admission should write for an application blank and should return it properly filled out. In addition to the information furnished on the application blank, applicants will request from each institution attended transcripts of records of scholastic work previously undertaken. The high-school principal or the college registrar in each case will mail the record direct to the Admissions Office of this University. The high-school record should be on the blank provided by this institution. It will be sent to the applicant at the time the application blank is forwarded. Except for premedical students, the transcript form of the college attended is usually accepted.

### EVALUATION

As soon as all the applicant's credentials are filed, the eligibility for admission is determined and the applicant is notified. High-school work is considered only as fulfilling entrance requirements; it is never credited toward advanced standing. If the applicant has completed additional work of a college grade, such additional work may, under the rules of the

School or Division concerned, be credited toward the requirements of an appropriate curriculum in that School or Division. It should be remembered that some college subjects may not count toward certain curricula which include but few electives.

#### REQUIREMENTS FOR ADMISSION

The following factors are considered in determining the eligibility of an applicant for admission:

1. The adequacy of previous academic work as preparation for the course of study now contemplated. This includes the amount and quality of work and the standing of the institution in which it was done.
2. The aptitude of the student if bent upon study for a profession.
3. The character of the student.

The University reserves the right to refuse admission to any student whose previous work has been of such grade as to create doubt of his ability to pursue college work successfully, or who for any other reason would not be a desirable student.

Detailed requirements for admission are stated in the announcements of the Schools and Divisions in this bulletin.

*The Junior College.*—A certificate of graduation from an accredited secondary school, with a minimum of fifteen "units", is required for admission to the Junior College. A unit represents a year's study in a secondary-school subject, including in the aggregate not less than 120 sixty-minute hours of prepared classroom work. Under the heading "Certificates", below, appears a statement of the conditions under which a certificate covering satisfactory units will be accepted. Immediately following are statements showing under what conditions a student will be required to take College Board Examinations and the George Washington University Examinations, respectively.

#### CERTIFICATES

Certificates will be accepted from accredited schools subject to the following conditions: (1) If the school is accredited by the Regional Association, the student must have attained a rank not lower than the fourth fifth of his class. (2) If the school is not on the Regional Association list, but has been accredited by the State Accrediting Agency, the student shall be required to have attained a rank in the upper two fifths of his class; if he has attained a rank below this, College Entrance Board Examinations or the George Washington University Entrance Examinations will be required for admission.

The Director of Admissions will, on application, furnish certificate blanks to the school principals. All records shall be certified on the blank provided by the University and must come directly to the Director of Admissions from the school concerned.

## COLLEGE ENTRANCE BOARD EXAMINATIONS

Candidates for admission who furnish certificates of graduation from unaccredited high schools shall take the examinations in the entrance subjects offered by the College Entrance Examination Board. An applicant who fails to pass in at least fifteen units in the entrance examination will not be admitted.

The examinations of the College Entrance Examination Board are held each spring in Washington as well as in other centers. These examinations will be given in Washington at The George Washington University June 19-24, inclusive, and September 18-22, inclusive, 1933. Applications for the June examinations should be addressed to the College Entrance Examination Board, 431 West 117th Street, New York City; applications for the September examinations should be addressed to the University.

Students planning to take College Entrance Board Examinations should secure the definitions of requirements in subjects as published by the Board.

## THE GEORGE WASHINGTON UNIVERSITY ENTRANCE EXAMINATIONS

Candidates for admission who present certificates of graduation from accredited schools but who have not attained the required rank in class, as described above, may request permission to take the George Washington University Entrance Examinations. Each applicant who satisfactorily passes these examinations will be admitted to the College, School, or Division of the University for which he or she is eligible.

There are two George Washington University Entrance Examinations: (1) a psychological college-ability examination; (2) an examination covering the principal high-school or preparatory-school subjects (English, History, Science, and Mathematics).

The George Washington University Entrance Examinations will be given for each session on the following dates: first semester 1933-34, Saturday, September 23, 1933; second semester 1933-34, Saturday, February 3, 1934. On both dates the examinations will be held from 9 a.m. to 12 and from 1 to 2.30 p.m.

## ENTRANCE UNITS ACCEPTED

Subject to the special requirements of the premedical and Engineering curricula, it may be stated that such courses as are offered by accredited high schools toward their own certificates of graduation may be presented to meet the entrance requirements of this University. Students from unaccredited high schools should inquire of the College Entrance Examination Board (431 West 117th Street, New York City) for its published statement of the scope of the several fields in which it examines.



### ADMISSION TO THE PREMEDICAL CURRICULUM

The several State Medical Boards govern the granting of licenses to practice; hence their requirements as to high-school credits must be met exactly. A high-school record from each high school attended (including junior high schools) must be filed, rather than a record from the last school only. The fifteen units required must include three in English, two in one foreign language, one in Algebra, one in Geometry, one in History, and one in Science. Eleven of the units offered must be in the above subjects. No candidate can be accepted with a condition in secondary-school work. (Should a student be admitted with a clear record to other than the premedical curriculum and complete college work acceptable toward that other curriculum, and then desire to enter premedical work, a deficiency in his secondary-school work would invalidate all college work previously taken. The deficiency would have to be cleared before proceeding with college courses that would apply toward the premedical-college requirements.) The premedical-college requirements must be fulfilled in all respects.

### ADMISSION TO THE SCHOOL OF MEDICINE

The statements made above concerning premedical applicants apply directly to students who believe themselves ready to enter the School of Medicine. Graduation from the Junior College of this institution or attainment of junior standing in another college or university does not automatically admit to the School of Medicine.

### ADMISSION TO THE SCHOOL OF ENGINEERING

The School of Engineering admits from high school on certificate as described above under the heading "Certificates". Twelve of the fifteen units required for entrance must be distributed as follows: three in English, two in one foreign language, two in Algebra, one in Plane Geometry, one half in Solid Geometry, one half in Plane Trigonometry, one in History, one in Physics, and one in Chemistry. A graduate of an approved high school who does not offer for admission the particular subjects required for the Engineering curriculum, but who does present not less than fifteen acceptable units, may be admitted on condition, if such deficiency in the distribution of units does not exceed two units.

### ADMISSION TO COLUMBIAN COLLEGE (THE SENIOR COLLEGE) AND THE PROFESSIONAL SCHOOLS AND DIVISIONS

Two years of Junior College work leading to the Junior Certificate, or the lower-division work in institutions not organized on the junior-senior college plan, following a specified curriculum, meets the minimum requirements of Columbia College or the professional School to which ad-

mission is sought. In addition, however, scholarship requirements for admission may be set somewhat higher than those for the Junior Certificate. Thus a selective process of choosing the most promising students may be employed.

#### APPLICANTS FOR ADVANCED STANDING (TRANSFER STUDENTS)

A student who has previously attended other higher institutions and is an applicant for advanced standing must request the registrar of each such institution attended to send directly to the Admissions Office of this University a transcript of his record, even though credits were not earned, together with an honorable dismissal from the institution last attended. An evaluation of these records will be made in accordance with practice established by the School or Division to which entrance is sought. Properly certified courses of study taken in accredited colleges and universities may thus be applied toward a degree at this University. It is again emphasized, however, that certain courses completed with satisfactory grade at another college or university may not count toward a particular degree representing largely required courses and few, if any, elective ones.

#### CLASSIFICATION OF STUDENTS

##### REGULAR STUDENTS

Regular students are those who have met the entrance requirements for candidates for degrees.

##### UNIVERSITY AND EXTENSION STUDENTS

Persons of mature age, as specified in the rules of the Division of University and Extension Students, may be admitted to that Division to pursue courses for which they have had adequate preparation. In special instances, with the permission of the instructor, a person may register as an auditor in a class without being required to take active part in the exercises or to pass examinations, but no credit will be allowed for such attendance. (See the announcement of the Division of University and Extension Students, pages 193-94.)

## REGISTRATION

Before a student may be admitted to registration he must have satisfied the Admissions Office that he is qualified for entrance to the University (see "Admission", pages 48-52).

Registration is for the semester unless otherwise indicated on the registration paper. No registration is accepted for less than a semester or one summer term.

A student may not register concurrently in The George Washington University and another institution without the permission of the Dean or Director of the School or Division in which he is registered in The George Washington University. Allowance of credit for work done concurrently will be at the discretion of the Committee on Admission and Advanced Standing.

### TIME AND PLACE OF REGISTRATION

Registration for the first semester will be conducted on September 18 and 19, 1933. Registration for the second semester will be conducted on January 31 and February 1, 1934. Registration for all Schools and Divisions of the University except the Law School will be conducted in Corcoran Hall, 725 Twenty-first Street NW., from 10 a.m. to 8 p.m. Registration for the Law School will be conducted in Stockton Hall, 720 Twentieth Street NW., from 10 a.m. to 8 p.m.

### REGISTRATION PROCEDURE

Instructions for registration will be issued to each registrant at the time of registration. A student who has previously matriculated in the University but who has not been in attendance during the semester prior to registration, should file an application blank in advance of registration.

### LATE REGISTRATION

For registration after September 19 in the first semester, and after February 1 in the second semester, a late-registration fee of \$5 will be charged. Registration in all courses for credit closes on October 3 for the first semester, and on February 15 for the second semester.

### CHANGES IN REGISTRATION AND WITHDRAWALS

A student may not change or drop courses or change his status to that of auditor except with the permission of the Dean or Director of the School or Division in which he is registered, upon the presentation of adequate reasons for such change. A fee of \$2 will be charged for each such change. Changes from one section to another of the same course may be made



at any time with the permission of the Dean or Director of the School or Division concerned.

A student desiring to change his major subject should make application to his Dean or Director. In making such change all requirements specified in the course of study to which the change is made must be satisfied before graduation.

A student desiring to transfer from one College, School, or Division to another should make application to the Director of Admissions. Such change may be made only with the approval of the Deans concerned.

A student who is obliged to withdraw from the University during the semester must immediately report in person or in writing to the Dean or Director of the School or Division in which he is registered. No permission to withdraw from the University will be given to a student who has not a clear financial record (see "Fees and Financial Regulations", pages 55-59).

*A student is liable for all charges for courses for which he has registered unless changes have been made with the approval of the Dean or Director, as stated above. Reporting the dropping of a course to an instructor does not effect its discontinuance.*

## FEES AND FINANCIAL REGULATIONS

By authorization of the Board of Trustees, the following fees have been adopted, effective at the beginning of the academic year 1933-34:

### UNIVERSITY FEE

For each semester or for any part thereof.....	\$8.00
For the Summer Sessions.....	4.00
For extension students for each registration*.....	2.00

### TUITION FEES

In all undergraduate Schools and Divisions, for each semester-hour credit of courses taken.....	8.00
In the School of Medicine, per annum.....	484.00
In the Law School, for each semester-hour credit of courses taken.....	8.00
The minimum charge for one semester is \$24.	
In the graduate departments, for each semester-hour credit of courses taken by students other than candidates for a Doctor's degree.....	8.00
For regular candidates for a Doctor's degree, per annum.....	240.00
Where a limited schedule is carried, the proportionate part of the year will be fixed by the Chairman of the Graduate Council in the case of a candidate for the Doctor of Philosophy degree and by the Dean of the School of Education in the case of a candidate for the Doctor of Education degree, and the fee will be determined on the basis of full time (twelve hours or more), three-quarter time (nine hours), half time (six hours), and quarter time (three hours). No fee for a year will be less than \$60 (quarter time).	

### EXAMINATION FEES

For examinations to qualify for advanced courses, and for all special examinations, for each subject.....	8.00
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### GRADUATION FEES

Wherein a degree is granted.....	20.00
Wherein a certificate is granted.....	10.00

### FEE FOR BINDING MASTER'S THESIS.....

2.00

### FEE FOR THE PROFESSIONAL THESIS IN THE SCHOOL OF ENGINEERING....

50.00

An annual fee, one half, plus the University fee, payable in advance at the time of each registration.

### FEE FOR PRINTING AND FILING SUMMARY OF DOCTORAL THESIS.....

50.00

### SPECIAL FEES

Late-registration fee, charged all students who fail to register within the designated period.....	5.00
Reinstatement fee, charged students who are reinstated after being suspended for delinquency in fees.....	5.00
Change fee, for each change in program after registration.....	2.00

\* This fee does not entitle extension students to the general privileges to which the preceding fees entitle resident students.

## THE UNIVERSITY FEE

Payment of the University fee, charged all students, secures to them the following student-activity privileges: (1) gymnasium privileges, including participation in intra-university athletic sports, and the use of the University tennis courts; (2) the *University Hatchet*, the official student newspaper, which is issued weekly; (3) admission to home athletic contests, unless otherwise specified; (4) admission to University debates; (5) the services of the Department of Health Administration.

## LABORATORY FEES AND DEPOSITS

Fees are charged in each course listed below as indicated. Material fees are charged by the semester and may be paid in three instalments when the tuition is paid in this manner. Breakage deposits are charged by the year and are due in full at the time of registration. Breakage of apparatus is charged against the individual student, and the amount paid in excess of breakage will be returned at the end of the year. Beaux Arts registration fees are charged by the semester and are due in full at the time of registration.

## ARCHITECTURE

Drawing-room fee, per semester:

Architecture 1, 3, 4, 25-26, 141-43..... \$3.00

Architecture 27-28, 125-26, 127-28..... 6.00

Beaux Arts registration fee, for one or more of the following, per semester:

Architecture 27-28, 125-26, 127-28..... 7.50

## BOTANY

Material fee, per semester:

Botany 1, 2, 135-36..... 4.50

Botany 115-16..... 9.00

## CHEMISTRY

Material fee, per semester:

Chemistry 111-12..... 6.00

Chemistry 1-2, 1X-2X, 21-22, 21X, 225, 225X, 243-44..... 9.00

Chemistry 41-42, 121-22, 135-36, 145-46..... 12.00

Breakage deposit, per annum, for one or more of the above courses..... 10.00

In case the student's breakage totals more than this amount, he will be required to make an additional deposit.

## CIVIL ENGINEERING

Drafting-room fee, per semester:

Civil Engineering 41, 42, 43-44, 150, 182, payable in advance..... 1.00

Civil Engineering 147-48..... 3.00

Laboratory fee, per semester:

Civil Engineering 14, 149..... 6.00

Surveying fee, per semester:

Civil Engineering 71-72..... 3.00

Civil Engineering 1, 102..... 6.00



## Fees and Financial Regulations

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<b>EDUCATION</b>	
Material fee, per semester:	
Education 134.....	53.00
<b>ELECTRICAL ENGINEERING</b>	
Drafting-room fee, per semester:	
Electrical Engineering 140, payable in advance.....	1.00
Laboratory fee, per semester:	
Electrical Engineering 13-14, 17-18, 133-34.....	6.00
<b>GRAPHIC ART</b>	
Drawing-room fee, per semester:	
Graphic Art 1-2, 3-4, 5-6, 7-8, 25-26, 101-2, 103-4, 105, 108, 131-32, 133-34.....	3.00
Graphic Art 27-28, 125-26, 127-28.....	6.00
<b>HOME ECONOMICS</b>	
Material fee, per semester:	
Home Economics 23, 23X, 51, 72, 121, 140, 152, 160, 171, 180....	3.00
Home Economics 3, 3X, 101, 102.....	9.00
<b>LIBRARY SCIENCE</b>	
Material fee, per semester:	
Library Science 101-2, 171-72, 181-82.....	1.00
<b>MECHANICAL ENGINEERING</b>	
Drafting-room fee, per semester:	
Mechanical Engineering 3, 4, 7-8, 127-28.....	3.00
Laboratory fee, per semester:	
Mechanical Engineering 115-16.....	6.00
<b>PHARMACY</b>	
Material fee, per semester:	
Pharmacy 21-22, 23-24, 101-2, 110, 151-52, 163, 166, 171-72, 174, 179-80, 184.....	3.00
Breakage deposit, per annum:	
Pharmacy 110, 163, 165-66, 174.....	5.00
Pharmacy 21-22, 101-2, 179-80.....	10.00
<b>PHYSICAL EDUCATION FOR WOMEN</b>	
Locker rental, for one or more of the following, per semester:	
Physical Education 1-2, 3-4, 5-6, 7-8, 109-10, 113, 116, payable in advance.....	1.00
<b>PHYSICS</b>	
Material fee, per semester:	
Physics 11, 11X, 12, 13, 101, 102.....	4.50
Physics 133, 134, 135, 136.....	9.00
<b>PSYCHOLOGY</b>	
Material fee, per semester:	
Psychology 119, 119X.....	3.00
Psychology 191-92.....	6.00
<b>PUBLIC SPEAKING</b>	
Material fee, per semester:	
Public Speaking 161-62.....	1.50

**ZOOLOGY**

Material fee, per semester:

Zoology 137, 151-52..... \$4 50

Zoology 1-2, 3, 138, 156, 186..... 6 00

Breakage deposit, per annum:

Zoology 1-2, 137, 151-52, 156..... 10 00

**PAYMENT OF FEES**

All fees are payable at the Office of the Comptroller, 2033 G Street N.W. No student is permitted to complete registration or to attend classes until all fees are paid. Fees for each semester are due and payable in advance at the time of registration.

In exceptional cases, subject to the approval of the Comptroller, students registering for more than three semester-hours may sign contracts for semester charges, except for the University fee and deposits, permitting instalment payments as follows: First semester—one third at the time of registration, plus the University fee and deposits; one third on November 1; one third on December 1. Second semester—one third at the time of registration, plus the University fee and deposits; one third on March 1; one third on April 1. Students registering for three hours or less, and students in the School of Medicine, are not privileged to sign contracts for instalment payments.

Students who fail to meet instalment payments by the sixteenth of the month will be suspended and may not attend classes until they have paid all accrued fees, a reinstatement fee of \$5, and have been officially reinstated. A suspended student may not be reinstated for the semester after two weeks from the date of suspension. Applications for reinstatement are to be made to the Dean of the School or Director of the Division in which the student is registered.

No student may register in any department of the University who owes fees in any other department of the University.

Auditors pay all fees chargeable to students registered for credit except the late-registration fee.

**WITHDRAWALS AND REFUNDS**

Applications for withdrawal must be made in person or in writing to the Dean of the School or the Director of the Division in which the student is registered. Notification to an instructor is not an acceptance of notice.

In authorized withdrawals and changes in schedules financial adjustments will be made on the principle of the three instalments a semester as follows:

First semester: Withdrawals dated on or before October 31, cancellation of the second and third instalments; withdrawals dated on or before

November 30, cancelation of the third instalment; no refunds or rebates will be allowed on withdrawals dated subsequent to November 30.

Second semester: Withdrawals dated on or before February 28, cancelation of the second and third instalments; withdrawals dated on or before March 31, cancelation of the third instalment; no refunds or rebates will be allowed on withdrawals dated subsequent to March 31.

In no case will any part of an initial instalment of tuition be refunded, and in no case will tuition be reduced or refunded because of nonattendance upon classes.

Any student in Chemistry who fails to check out of the laboratory on or before the date set by the instructor, unless excused by the instructor, shall forfeit the balance of his deposit. Students dropping a course before the end of the semester are urged to check out at once.

No permission to withdraw and no certificate of work done will be given a student who has not a clear financial record.



## FELLOWSHIPS, SCHOLARSHIPS, PRIZES, LOANS

### FELLOWSHIPS

The following fellowships are available in the University. Forms on which to make application for these fellowships will be supplied, on request, by the Registrar of the University. Having been properly filled out they should be submitted for consideration not later than March 1 of any year for the academic year beginning the following September.

*Isabella King Research Fellowship.*—A fellowship of the value of \$1,200 annually is offered in Biology. It is open to candidates holding the Bachelor's degree and is intended to foster research for which the libraries and scientific establishments in Washington offer special facilities.

*Thomas Bradford Sanders Fellowships.*—These fellowships and scholarships were established by Miss Addie Sanders in memory of her late brother, Thomas Bradford Sanders. They are offered in the following departments, each with a stipend of \$600 in addition to tuition: Chemistry, four fellowships; Economics, one fellowship; English, one fellowship; History, one fellowship; Mathematics, one fellowship; Physics, three fellowships.

### SCHOLARSHIPS

Student scholarships are administered by the University Committee on Student Loans and Scholarships. Application for scholarships must be made on forms which may be obtained from the Registrar of the University and must be filed in the Office of the Registrar not later than May 15 preceding the academic year for which the scholarship is to be awarded; or, in the case of awards for the second semester, not later than January 1. Scholarships are awarded for one year, unless otherwise specified. They may be renewed. Further information may be obtained from the Registrar of the University.

*Byron Andrews Scholarships.*—Two scholarships in the amount of \$100 each, founded by Mrs. Belle Fisk Andrews in memory of her husband, the late Byron Andrews, are available "for ambitious and needy students, who desire to pursue courses in English, Latin, Journalism, History, Literature, or Political Science."

*Henry Harding Carter Scholarships.*—These four scholarships, founded by Mrs. Maria M. Carter in memory of her husband, Henry Harding Carter, are of the annual value of \$50 each and may be awarded to deserving students who are preparing for the civil-engineering profession.

*Maria M. Carter Scholarship.*—This scholarship, in the amount of \$200 to be awarded annually to a young man, was given to the University in 1871 by Mrs. Maria M. Carter.

*Citizens' Military Training Camps Scholarship.*—The University awards each year, through the Citizens' Military Training Camps of the Third Corps Area, a scholarship carrying tuition (this does not include the University fee, laboratory fees, or deposits) for one year in any one of the undergraduate departments. The award is made on the recommendation of the Camp officers.

*Isaac Davis Scholarship.*—This scholarship, in the amount of \$40 to be awarded annually, was given to the University in October 1869 by the Honorable Isaac Davis, Governor of Massachusetts. Nominations for the scholarship may be made "by the founder or his eldest lineal descendant." In case no such nomination is made, the scholarship is to be awarded by the University.

*Robert Farnham Scholarship.*—This scholarship, in the amount of \$40 to be awarded annually to a student in Columbian College, was given to the University in 1871 by Mrs. Robert Farnham.

*Elma Lewis Harvey Scholarship.*—This scholarship, of the annual value of \$200, was founded in 1921 by Mrs. Emma Elizabeth Harvey, in memory of her daughter, and is to be awarded every four years, or as often as vacant, to a young woman student in Columbian College of the Protestant faith and of the Caucasian race who shall be selected for scholarship and moral qualifications.

*High-School Scholarships.*—University scholarships are assigned for award to the following schools: Eastern, McKinley, Roosevelt, and Western High Schools of the District of Columbia; the Alexandria (Virginia) High School; the Bethesda-Chevy Chase (Maryland) High School; the Washington-Lee (Virginia) High School, and the George Mason (Virginia) High School. The *Amos Kendall Scholarship*, founded by the late Honorable Amos Kendall, is assigned for award to the Central High School of the District of Columbia. These scholarships are awarded annually, on the recommendation of the faculties of the respective schools, to a member of the graduating class who intends to enter one of the undergraduate Schools or Divisions of the University.

The holders of these scholarships are exempt from tuition fees, the Summer Sessions excepted, but are charged the University, laboratory, graduation, and other fees. The scholarships are valid for four continuous academic years following the award, subject to the conditions stated herein. To retain any high-school scholarship a student must carry a full program of study (a full program being defined as at least fifteen hours of work each semester), unless otherwise determined in individual cases by the Committee on Student Loans and Scholarships upon recommendation of the Dean of the School or Division concerned. An average of B and a high standard of deportment must be maintained.

*John Hitz Metzerott Scholarship.*—This scholarship in the amount necessary to cover tuition charges, exclusive of special fees, was established

in 1923 in memory of John Hitz Metzgerott, M.D. '91, by members of his family, and is to be awarded every six years, or as often as vacant, to a young man preparing to enter the medical profession. The donors reserve the right to nominate the holder of this scholarship. The holder of the scholarship may be a student pursuing a premedical course in the Junior College or the professional course in the School of Medicine.

*A. Morehouse Scholarship.*—This scholarship was founded by Mr. A. Morehouse, of Washington, D. C., in 1861. It carries an annual stipend of \$60 which is available for an undergraduate intending to enter the Christian ministry.

*The David Spencer Scholarship.*—This scholarship, established in 1913 by Louisa J. Spencer, is available to the descendants of David and Elizabeth Spencer under conditions stated in the bequest. This fund will not be productive until 1934-35.

*The Mary Lowell Stone Scholarship.*—This scholarship, founded in 1881 in memory of Mary Lowell Stone, is in the amount of \$80 to be awarded annually to a woman student of science in Columbian College.

*William Walker Scholarship.*—This scholarship was founded in 1824 by William Walker, Esq., of Putnam County, Georgia. It carries an annual stipend of \$100 which is available for an undergraduate intending to enter the Christian ministry.

*John Withington Scholarship.*—This scholarship was founded in 1830 by the New York Baptist Theological Seminary, to be known as the Withington Scholarship. It has an annual stipend of \$60.

*Ellen Woodhull Scholarship.*—This scholarship was founded by the late Ellen M. E. Woodhull and is in the amount of \$25 to be awarded annually to a student in Columbian College.

#### THE COLUMBIAN WOMEN SCHOLARSHIP FUNDS

The Columbian Women Scholarships, granted under any of the funds hereinafter described, are awarded by the Scholarship Committee of The Columbian Women. Applications for The Columbian Women Scholarships should be addressed to the Chairman of the Scholarship Committee, The Columbian Women, The George Washington University, Washington, D. C., not later than May 15 preceding the academic year for which the scholarship is to be awarded; or in case of awards for the second semester, not later than January 1.

*Nellie Maynard Knapp Scholarship Fund.*—The income from this fund of \$5,000, established in 1915 by The Columbian Women in memory of a former president, Mrs. Martin A. Knapp, is available for scholarships for women.

*Founders of Columbian Women Scholarship Fund.*—The income from this fund of \$5,000, established in 1920 by The Columbian Women, is available for scholarships.



*Lillian Young Herron Scholarship Fund.*—The income from this fund of \$5,000, established by The Columbian Women in 1925 and named in 1930 in memory of a former president, is available for scholarships.

*Elizabeth V. Brown Scholarship Fund.*—This fund of \$1,200 was established in 1925 by the College Women's Club of Washington, D. C., in memory of the late Elizabeth V. Brown. The scholarship granted thereunder is available for a woman student in the School of Education.

*College Women's Scholarship Fund.*—The income from this fund of \$500, established in 1926 through the courtesy of the College Women's Club of Washington, D. C., is available for scholarship aid.

*Lewes D. and Myrtie H. Wilson Memorial Scholarship Fund.*—This fund of \$1,000 was established by Miss Elizabeth Wilson in 1926 as a memorial to her parents, Lewes D. and Myrtie H. Wilson. The income is available for a scholarship in the School of Medicine.

*Grace Ross Chamberlin Scholarship Fund.*—The income from this fund of \$1,000, established in 1932 by The Columbian Women in honor of a former president, is available for scholarship aid.

#### PRIZES

*Alpha Chi Sigma Prizes.*—Alpha Pi Chapter of Alpha Chi Sigma Fraternity offers annually the following prizes:

A "Handbook on Chemistry and Physics" is awarded to each of the three male students who carry at least eighteen semester-hours during the freshman year and attain the highest averages in freshman Chemistry.

The fraternity will have engraved on a bronze plaque in Corcoran Hall the name and year of graduation of the graduating male student who has attained the highest quality-point index in Chemistry subjects, exclusive of the work of the final semester, provided that he has completed the requirements for a major in Chemistry and has done three-fourths of this work in The George Washington University.

*Alpha Delta Pi Prize.*—Alpha Pi Chapter of Alpha Delta Pi Fraternity offers an annual prize of \$10 to the student doing the best work in third-year French.

*Alpha Delta Theta Prize.*—A prize of \$10 is offered annually by Alpha Delta Theta Sorority to the woman student who maintains the highest average in Chemistry 1-2 or 2 and 21.

*Chi Omega Prize.*—Phi Alpha Chapter of Chi Omega Fraternity offers annually a prize of \$25 to be awarded to the woman student in the graduating class with the highest record in the Social Sciences combined with general excellence. The Social Sciences include Economics, Sociology, Political Science, and History.

*Colonial Dames Prize.*—The Society of the Colonial Dames of America, Chapter III, offers annually a gold medal for general excellence in Colonial History as shown by class standing and special essays.

*E. K. Cutter Prize.*—The E. K. Cutter Prize in English was founded by the late Marion Kendall Cutter "for excellence in the study of English." An annual prize of \$40 is awarded to the member of the graduating class whose record in English, combined with general excellence, shows most marked aptitude and attainment in English studies.

*Daughters of the American Revolution Prize.*—This prize, founded by the Daughters of the American Revolution of the District of Columbia, consists of a gold medal which is awarded annually to a student in Columbian College, the School of Government, or the School of Education who shall write the best essay on American history of the period between 1774 and 1788.

*Davis Prizes.*—The Davis Prizes were founded by the Honorable Isaac Davis, of Massachusetts, in 1847, and they are awarded annually to the members of the Senior Class as shall have made the greatest progress in Public Speaking since their connection with the University. The prizes are as follows: first prize, \$15; second prize, \$10; third prize, \$5.

The Davis Prize Speaking is held on the third Tuesday in November. The award of these three prizes is determined by a public-speaking contest in which the participants deliver original orations. Only members of the Senior Classes who are candidates for the degree of Bachelor of Arts or Bachelor of Science are eligible to compete. Students wishing to enter the competition should report to the Executive Officer of the Department of Public Speaking not later than three weeks before the contest and should submit their orations not later than two weeks before the contest. The prizes are awarded by a committee of three members appointed by the Department of Public Speaking.

*Delta Sigma Rho Prizes.*—Delta Sigma Rho offers annually two cups to be awarded to the winning fraternity and sorority teams in the Inter-mural Debate.

*Delta Tau Delta Activity Prize.*—Gamma Eta Chapter of Delta Tau Delta Fraternity offers each year a gold medal to be awarded to the member of the Senior Class who throughout his course at The George Washington University has done the most constructive work in the furtherance and upbuilding of the University Student Activities.

*Delta Zeta Prize.*—Delta Zeta Sorority offers annually a prize of \$10 to be awarded to the student maintaining the highest average in General Botany.

*Ellsworth Prize.*—The Ellsworth Prize of \$25, offered by Mr. F. v. Briesen, is awarded to the student doing the best work in the subject of Patent Law Practice.

*Elton Prize.*—The Elton Prize, founded by the Reverend Romeo Elton, D.D., of Exeter, England, consists of \$10 awarded annually to the student having the highest average in Greek language and literature.

*Willie E. Fitch Prize.*—The Willie E. Fitch Prize for highest excellence in all branches of Chemistry, founded in 1883 by James E. Fitch, Esq.,

memory of his son, consists of \$40 which is awarded annually to a senior student for the best general examination in Chemistry.

*Edward Carrington Goddard Prize.*—This prize, consisting of a gold medal, was founded in 1924 by Mary Williamson Goddard, Alice Douglas Goddard, and Frederick Joseph Goddard, of Georgetown, D. C., in memory of Edward Carrington Goddard, class of '81, and is awarded to the junior or senior student making the highest average in the French language and literature.

*James Douglas Goddard Prize.*—This prize, consisting of a gold medal, was founded in 1924 by Mary Williamson Goddard, Alice Douglas Goddard, and Frederick Joseph Goddard, of Georgetown, D. C., in memory of James Douglas Goddard, class of '01, and is awarded to the senior student making the highest average in Pharmacy.

*Morgan Richardson Goddard Prize.*—This prize, consisting of a gold medal and \$25, was founded in 1924 by Mary Williamson Goddard, Alice Douglas Goddard, and Frederick Joseph Goddard, of Georgetown, D. C., in memory of Morgan Richardson Goddard, and is awarded to the junior or senior student making the highest average in Commerce.

*Samuel Herrick Prize.*—A prize of \$25, founded by Samuel Herrick, Esq., is awarded annually to that member of the graduating class in the Law School (excepting the winner of the John Bell Lerner gold medal), who has attained the highest average grade in the work of the third year.

*Hourglass Prize.*—This prize, consisting of a silver cup, is awarded annually to the woman student in the Sophomore Class having a scholarship average of B or higher and the most outstanding record in activities.

*Gardiner G. Hubbard Memorial Prize.*—This prize of \$40 was established in 1907 by Mrs. Gertrude M. Hubbard in memory of her husband, the late Gardiner G. Hubbard, and is awarded annually to that member of the graduating class who has during four years maintained a high standing in the several classes in History and who has produced the best essays upon subjects based upon a study of some assigned period of American history.

*Henry E. Kalusowski Prizes.*—The District of Columbia Retail Drug-gists' Association offers three prizes in Pharmacy: \$25 to the student having the highest average in all subjects at the end of the first year; \$35 to the student having the highest average in all subjects at the end of the second year; and \$50 to the student having the highest average in all subjects at the end of the third year.

*Kappa Delta Prize.*—Kappa Delta Sorority offers annually a silver loving cup to that girl of the Freshman Class who, in her first year, attains the highest scholastic average in not less than twenty-four semester-hours of work.

*Kappa Kappa Gamma Prize.*—Kappa Kappa Gamma Sorority offers annually a gold medal to the full-time freshman having the best record in Botany 1-2.



*John Bell Larner Prize.*—This prize, established by the bequest of John Bell Larner, consists of a gold medal which is awarded annually to that member of the graduating class in the Law School who attains the highest average grade in the entire course for the degree of Bachelor of Laws.

*John Ordranax Prizes.*—These two prizes were established in 1909 by the bequest of John Ordranax.

The amount of \$100 is awarded to the member of the graduating class in the School of Medicine who has the highest scholastic standing.

The amount of \$50 is awarded annually to the student in the Law School who has attained the highest average grade in the first-year, full-time, regular course; and \$50 to the student who has attained the highest average grade in the second-year, full-time, regular course.

*Phi Delta Prize.*—Zeta Chapter of Phi Delta Sorority offers annually a gold medal to the outstanding freshman student in elementary Zoology.

*Phi Eta Sigma Prizes.*—Phi Eta Sigma Honorary Scholarship Fraternity offers annually two plaques to be awarded to two men of the Freshman Class, the first to the highest ranking man on the basis of thirty semester-hours of work, and the second to the highest ranking man on the basis of eighteen semester-hours of work.

*Pi Beta Phi Prize.*—A prize of \$20 is awarded annually by the District of Columbia Alpha Chapter of Pi Beta Phi Fraternity to that woman member of the Senior Class who throughout her college course has done the most constructive work in the promotion of student activities among the women of the University.

*Ruggles Prize.*—The Ruggles Prize, founded by Professor William Ruggles, LL.D., in 1859, consists of \$20 awarded annually to a student in Columbian College for excellence in Mathematics.

*Sigma Delta Phi Prize.*—Sigma Delta Phi presents annually a silver cup to the winner of the oratorical contest which is open to all freshmen.

*Sigma Kappa Prizes.*—Zeta Chapter of Sigma Kappa offers the following prizes: An annual prize of a set of books of the value of \$10 is awarded to the student passing the best examination in the year's work in English Rhetoric. A prize of \$10 is awarded to the student who passes the best examination in freshman Chemistry.

*Staughton Prize.*—The Staughton Prize, founded by the Reverend Romeo Elton, consists of \$10 awarded annually to the senior student making the best record in the Latin language and literature.

*James MacBride Sterrett, jr., Prize.*—This prize, founded in 1911 by the late Professor James MacBride Sterrett in memory of his son, consists of a gold medal awarded annually to that student who obtains the highest average in the course in General Physics.

*Thomas F. Walsh Prize.*—This prize, established by Thomas F. Walsh, consists of a gold medal awarded annually to that student of the graduating class who, having maintained a high standard in the several courses

in History, shall produce the best essay upon a designated period of the history of England in its association with the history of Ireland.

*Alexander Wilbourne Weddell Prize.*—From a fund established in 1923 by Mrs. Virginia Chase Weddell, an annual prize of \$200 is awarded to a student of the University, who is registered for a degree, for the best essay on the subject of "the promotion of peace among the nations of the world." The prize essays shall become the property of the University and shall not be printed or published without the written consent of the University. The University reserves the right to withhold the award if no essay attaining the required degree of excellence is submitted.

#### LOAN FUNDS

Loan funds are administered by the University Committee on Student Loans and Scholarships. Applications upon the required forms should be filed in the Office of the Registrar at least ten days before the first day of registration in the case of the University Loan Fund, and at least two weeks before in the case of loans from other sources. Loans will be limited to the amount required for tuition in each case. Borrowers will sign notes for the amount borrowed. The terms of repayment of interest and principal will be arranged at the time of making the loan. No candidate will be approved for graduation if he is delinquent in a loan obligation incurred for educational purposes either at The George Washington University or elsewhere.

*University Student Loan Fund.*—The Trustees of The George Washington University have established a loan fund amounting to \$10,000.

*Daughters of the American Revolution Loan Fund.*—The District of Columbia Chapters of the Daughters of the American Revolution have established a student loan fund, from the income from which interest-bearing loans will be made to the daughters of members of the Daughters of the American Revolution in the District of Columbia. At present the fund amounts to \$1,853.20.

*The Henry Strong Educational Foundation.*—The Henry Strong Educational Foundation, established at Chicago under the will of General Henry Strong, makes an annual allotment to the University of \$300 for loan scholarships, available for use of men and women students under the age of twenty-five years, preferably in the upper classes, possessing not only zeal for leadership but also character and those traits tending to leadership, to aid them in obtaining a practical, literary, scientific, mechanical, or business education. The amount available for the year 1933-34 is \$1,500.

*Henry Strong-William A. Maury Loan Fund.*—This fund, amounting to \$300 a year, is also allocated from the funds of the Henry Strong Educational Foundation, to be loaned to students under the age of twenty-five

years in The George Washington University Law School. The amount available for 1933-34 is \$1,000.

*The Knights Templar Educational Loan Fund.*—This fund is contributed and administered by the Grand Commandery of Knights Templar of the District of Columbia and is available for loans to students, preferably in the upper classes, who are residents of the District of Columbia. The amount loaned to a student is limited to \$200, and the terms of repayment are specially arranged in each instance by the Loan Committee of the Knights Templar.

*The Pharmacy Loan Fund.*—This fund, established in 1932 by the Washington Chapter No. 4 of the Women's Organization of the National Association of Retail Druggists, is available to students in the School of Pharmacy. Application should be made to the Dean of the School.



## REGULATIONS

A student enrolled in the University is required to conform to the general University regulations and to comply with the rules and regulations of the College, School, or Division in which he is registered.

### ATTENDANCE

Students are not permitted to attend classes until registration has been completed and fees due have been paid. Regular attendance is required except in the case of students registered for courses under the independent study plan. For undue absence in any class a student may be dropped from the class. Tuition charges are made on a semester basis, and in no case will tuition be refunded or reduced because of nonattendance upon classes.

Students who have been suspended for delinquency in payment of fees, or who have been suspended for any other reason, are not permitted to attend classes during the period of suspension.

### NONCONTINUOUS ATTENDANCE

Students absent for one semester or more may reenter and continue their work only under the rules and regulations in force at the time of their return.

For further regulations regarding attendance, consult the announcements of the several Schools and Divisions.

### PHYSICAL EDUCATION REQUIREMENTS

Regular freshman and sophomore courses in Physical Education are arranged for men and women students in the Junior College and the School of Engineering.

These courses in Physical Education are required of all freshman and sophomore students, provided only that students taking less than three subjects and students who, because of regular employment during the day (or for other reasons satisfactory to the Dean), must take all their classes in the late afternoon hours, are exempt from the requirements in Physical Education.

Exemption from the requirements of Physical Education for reasons of a physical nature is conditioned on the recommendation of the University medical staff to the Executive Officer of Physical Education in the department concerned. This applies equally to men and women.

Students entering the University with advanced standing are not exempt from the Physical Education requirement unless they have satis-

factorily met the requirement elsewhere. Courses in military training are not accepted in satisfaction of this requirement.

The required medical and physical examinations will be given September 22 and 23, 1933.

### SCHOLARSHIP REQUIREMENTS

A student who fails to maintain the scholarship requirements of the School in which he is registered may be placed on probation or dropped from the University.

### ELIGIBILITY FOR STUDENT ACTIVITIES

In order to be eligible to represent the University in any intercollegiate nonathletic activity a student must be a regularly enrolled candidate for a degree, registered for at least nine hours, and not on probation. In order to participate in other student activities a student must be registered for at least two courses and not on probation.

A detailed statement of the regulations governing participation in intercollegiate athletic contests may be secured from the Secretary of the Faculties.

Before a student may participate in any activity he must be certified as eligible by the Registrar of the University. The Faculty adviser in charge of each activity shall submit to the Registrar a list of all student candidates for participation in that activity. For the purpose of determining eligibility under these rules, a student's quality-point index will be calculated at the end of each semester, irrespective of the amount of work carried.

### EXAMINATIONS

Examinations are scheduled in all courses at the end of each semester or at the completion of the course.

Students guilty of dishonesty in examinations may be deprived of credit for the courses in which dishonesty occurs and suspended or expelled from the University.

For further regulations regarding examinations, consult the announcements of the several Schools and Divisions.

### GRADES

Grades are not given out by instructors but are mailed to the student through the Office of the Registrar at the close of each semester. Upon request, a copy of the student's grades will be forwarded to his parent or guardian.

The following grading system is used in all undergraduate divisions of the University: *A* (90-100 per cent), excellent; *B* (80-89 per cent), good; *C* (70-79 per cent), average; *D* (60-69 per cent), passing; *E*, cut

ditioned, not passing; *F* (below 60 per cent), failure; *Inc.*, incomplete; *W*, withdrawn. *W* is followed by a letter grade indicating the quality of work the student was doing at the time of withdrawal. A course failed must be repeated with a passing grade in order to be credited. A condition may be removed within one year on terms specified by the instructor, but in no case will a final grade above *D* be given, unless the course is repeated in class. A grade of "incomplete" cannot be altered after the lapse of one calendar year except by Faculty action.

In all graduate divisions of the University, grades are indicated as "satisfactory", "unsatisfactory", or "incomplete".

For the grading system of the Law School and the School of Medicine, see the explanations in the announcements of those Schools.

#### QUALITY-POINT INDEX

Quality-points are computed from grades as follows: *A*, four points; *B*, three points; *C*, two points; *D*, one point; *E*, no points; *F*, minus one point, for each semester-hour for which the student has registered.

A semester-hour represents one recitation, lecture, or laboratory period a week for one semester. The number of semester-hours of credit given for each course is indicated in parentheses following the name of the course in the statement under "Courses of Instruction", pages 201-309.

Scholarship is computed in terms of the quality-point index obtained by dividing the number of quality-points by the number of semester-hours for which the student has registered, both based on the complete collegiate record. Courses marked *W* or *Inc.* are not considered in determining the index.

The successful repetition of a course in which a grade of *F* was received removes the minus quality-points involved, and the appropriate quality-points for the grade received are assigned.

#### CREDIT

Credit toward a degree is given only after regular registration for and satisfactory completion of the required work of classes in the University, or upon the granting of advanced standing in accordance with the regulations of the several Schools and Divisions.

On request the Registrar will furnish to students balance sheets showing the amount of work completed and the amount necessary to complete the requirements for a degree.

#### GRADUATION REQUIREMENTS

To be recommended for graduation a student must have met the admission requirements of the School or Division in which he is registered, have completed satisfactorily the residence, scholarship, and other re-



quirements for the certificate or degree for which he is registered, and be free from all indebtedness to the University.

*Application for Graduation.*—Application for a degree or a Junior Certificate should be filed in the Office of the Registrar at the time of registration for the first semester of the senior or final year and may not be filed later than the date specified in the University calendar.

*Residence Requirements.*—In all undergraduate divisions of the University a minimum of one year, or thirty semester-hours, must be completed in residence. Summer Sessions work may be counted in residence, but in no case may the period of residence aggregate less than thirty weeks. Unless special permission is granted by the Dean of the School or Director of the Division concerned to pursue work elsewhere, the work of the senior or final year must be completed in residence.

Graduate students must meet the residence requirements for the particular degree for which they are registered.

*Scholarship Requirements.*—In all undergraduate divisions of the University the scholarship requirement for graduation is a quality-point index of at least 2.00.

Graduate students must meet the scholarship requirements for the particular degree for which they are registered.

*Attendance and Conduct.*—The University reserves the right of refusal to confer a degree upon a candidate whose attendance or conduct has been unsatisfactory.

*Presence at Graduation.*—Candidates are required to be present at the graduation exercises unless excused by the President of the University upon the recommendation of the Dean or Director of their School or Division.

### HONORS

In all undergraduate divisions of the University the degree may be conferred "with distinction", at the discretion of the Faculty, upon those students attaining a quality-point index of 3.50 or higher. To be eligible for this honor a student must have completed at this institution at least one half of the work required for the degree.

### SPECIAL HONORS

Special honors may be awarded by the Faculty to members of the graduating class for outstanding achievement in the student's major field of work on recommendation of the major department under the following regulations:

1. The student shall have his candidacy for special honors approved by the Faculty member representing the major department not later than the beginning of the senior year.

2. The candidate shall meet such other conditions as the major department may set at the time the student's candidacy is approved.

3. No student shall be awarded special honors unless he has a quality-point index of at least 3.00 on all work taken at this institution except for the grades immediately preceding the granting of the degree. To be eligible for this honor a student must have completed at this institution at least one half of the work required for the degree.

#### FORMAL REQUIREMENTS FOR THESES

Theses submitted in part satisfaction of requirements for the Master's degree, the professional degrees in Engineering, the degree of Doctor of Education, and the degree of Doctor of Philosophy must be presented in their final form to the Dean or Director of the School or Division concerned not later than the date specified in the University calendar. Two copies of each thesis are required, one typewritten original and one legible carbon copy; they should be written on the official thesis paper which is obtainable at the University storeroom in Stockton Hall, and should be unbound. The title page must be in the following form:

(title of thesis)  
By (name of candidate)  
(degrees held)

A thesis submitted to the Faculty of the (name of the College, School, or Division) of The George Washington University in part satisfaction of the requirements for the degree of (name of degree).

(date of Convocation at which the degree is to be conferred)

Accepted theses, with accompanying drawings, are the property of the University and will be deposited in the University Library, where the duplicate copies will be bound and made available for circulation.

Special requirements regarding theses are stated in the announcements of the Colleges, Schools, and Divisions.

#### TRANSFER OF RECORDS

Official transcripts of student records will be forwarded on request to other institutions. Unofficial copies of records will be furnished to students on request. No charge is made for the first transcript or copy; a fee of one dollar is charged for each one thereafter. No certificate of work done will be issued for a student who does not have a clear financial record.

#### THE LIBRARY

A modified Cutter classification system is used in the General Library, and the books are on open shelves of the reading rooms. The catalogue contains in one general alphabetical list the names of authors, subjects, and titles.

See the announcements of the School of Medicine and the Law School for information concerning the libraries of those Schools.

### CIRCULATION

When a desired book has been found in the catalogue, the classification number or call number and the author and title should be copied from the card and handed to the attendant.

### BOOKS FOR HOME USE

1. Books, pamphlets, and periodicals not reserved for reference may be withdrawn by students, Faculty, and alumni of the University for a period of two weeks. They may be renewed for the same period, except when there is a special demand for them. Manuscript theses, however, may be used only in the reading room of the Library.
2. Books, pamphlets, and periodicals shall be recorded at the Librarian's desk before they are taken from the Library.
3. Books withdrawn from the Library shall, upon their return, be brought to the Librarian's desk to be discharged.
4. A record is not clear as long as there is an overdue charge for books or magazines against a student, and the failure to return them will be referred for action to the Dean of the College in which the student is registered and to the Comptroller of the University.

### RESERVE AND REFERENCE BOOKS

1. Books assigned for supplementary reading are reserved. Books will be placed on reserve as they are requested in writing by the professors. A reserve book may be secured by filling out a reserve-book slip at the reserve section. The book may not be taken from the reading room of the Library. It must be returned to the reserve section by the reader to whom it is charged, and the signed slip will be returned as a receipt. Any student taking a reserve book from the room will be reported to his Dean for appropriate action. When a book is in great demand, the period of use may be restricted.
2. The reference section consists of dictionaries, encyclopedias, guides, indexes, yearbooks, almanacs, atlases, and other standard reference books. They are kept on the shelves of the reading room at all times and may be used only in the room.

### RIGHT TO DROP STUDENTS

The right is reserved to drop any student whenever, in the interest of the student or the University, the Faculty deems it advisable to do so.



## STUDENT LIFE

### LIVING ACCOMMODATIONS

The George Washington University is an urban institution. It maintains no dormitories. For the benefit of nonresident students registers of rooms which have been inspected and approved are kept in the office of the Director of Women's Personnel Guidance, where inquiries in respect to housing facilities should be addressed. Satisfactory accommodations can be found near the University.

Single rooms usually range in price from \$15 to \$25 a month, and double from \$10 to \$20 a month a person. Rooms with board, including breakfast and dinner, cost from \$35 to \$45 a month a person.

It is advisable for students to reach the University two or three days before the opening of the term in order that they may become established in satisfactory living quarters before class work begins. Renting by mail is unsatisfactory. Lists of houses will be mailed on request, but students are advised to make personal inspection before engaging rooms.

### WOMEN STUDENTS

All women students under twenty-three years of age must have their residences approved by the Director of Women's Personnel Guidance, unless they are living with family or relatives. Registration is not complete until such approval is given.

### APPOINTMENT BUREAU

The Appointment Bureau is maintained to assist graduates and students in finding positions for which their college work has prepared them, and to cooperate with employers who wish to fill vacancies. Enrolment is open to graduates and students without charge for placement.

For further information address the Placement Secretary, The George Washington University, Washington, D. C.

### STUDENT EMPLOYMENT

An employment service is operated to assist self-supporting students in finding employment. The University offers every possible assistance, but success in self-support depends upon the student himself.

Prospective students who expect to earn any part of their expenses and who do not have definite appointment to positions before coming to Washington, should have the means of support for at least one semester. A minimum budget of \$100 a month is recommended.

Many out-of-town students secure positions in the Departments of the Government in Washington by taking the United States Civil Service

examinations in their home States. The hours of employment permit them to pursue a college course in the late afternoon.

#### HEALTH ADMINISTRATION

The University maintains a staff of medical officers and a hospital. The payment of the University fee entitles the student to certain health services described under the Department of Health Administration, page 242.

#### STUDENT ACTIVITIES

Control and direction of all student activities are vested in the Committees on Extracurricular Activities, which in turn are subject to the supervision and control of the President's Council.

#### ASSEMBLIES

Chapel exercises are held on Friday of each week at 12.10 p.m. in Corcoran Hall.

University Assemblies are held from time to time. The attendance of students may be required.

Assemblies for freshman women are held on Thursday of each week at 12.10 p.m. in Corcoran Hall. The attendance of all freshman women is required throughout the year.

#### PROPERTY RESPONSIBILITY

The University is not responsible for the loss of personal property belonging to students in any University building.

#### RESERVATION OF RIGHT TO CHANGE RULES

The University and its various Colleges, Schools, and Divisions reserve the right to modify or change the requirements, rules, and fees of the University. Such regulations shall go into force whenever the proper authorities may determine and shall apply to all students in the University.

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For further information, catalogues, and application blanks, address the Director of Admissions, The George Washington University, 2031 G Street NW., Washington, D. C.

THE COLLEGES, SCHOOLS, AND DIVISIONS





## THE JUNIOR COLLEGE

### THE FACULTY

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University.*  
Henry Grattan Doyle, A.M., *Dean of the Junior College.*

### STAFF OF INSTRUCTION

William Allen Wilbur, A.M., Litt.D., LL.D., *Professor of English.*  
Charles Sidney Smith, Ph.D., *Professor of Classical Languages.*  
Thomas Benjamin Brown, Ph.D., *Professor of Physics.*  
Henry Grattan Doyle, A.M., *Professor of Romance Languages.*  
Richard Norman Owens, Ph.D., C.P.A., *Professor of Accounting and Business Administration.*  
Robert Whitney Bolwell, Ph.D., *Professor of American Literature.*  
\*Walter Lynn Cheney, Ph.D., *Professor of Physics.*  
Willard Hayes Yeager, A.M., *Depew Professor of Public Speaking.*  
†Fred August Moss, Ph.D., M.D., *Professor of Psychology.*  
James Ebenezer Pixlee, B.S., *Professor of Physical Education for Men.*  
Dudley Wilson Willard, Ph.D., *Professor of Sociology.*  
Elmer Louis Kayser, Ph.D., *Professor of History.*  
Harold Griffith Sutton, M.S., *Associate Professor of Finance.*  
Anna Pearl Cooper, A.M., *Associate Professor of English.*  
Merle Irving Protzman, A.M., *Associate Professor of Romance Languages.*  
Warren Reed West, Ph.D., *Associate Professor of Political Science.*  
\*John Albert Tillema, Ph.D., LL.M., *Associate Professor of Political Science.*  
Ruth Harriet Atwell, A.M., *Associate Professor of Physical Education for Women.*  
Frank Mark Weida, Ph.D., *Associate Professor of Mathematics.*  
Francis Edgar Johnston, Ph.D., *Associate Professor of Mathematics.*  
\*Lowell Joseph Ragatz, Ph.D., *Associate Professor of History.*  
Daniel Houston Buchanan, Ph.D., Sc.D., *Associate Professor of Economics.*  
Frances Kirkpatrick, A.M., *Associate Professor of Home Economics.*  
Benjamin Douglass Van Evera, M.S., *Associate Professor of Chemistry.*  
Mitchell Dreese, Ph.D., *Associate Professor of Education.*

\* On sabbatical leave 1933-34.

† On sabbatical leave first semester 1933-34.

- Alan Thomas Deibert, A.M., *Assistant Professor of Romance Languages.*  
 Audley Lawrence Smith, A.M., *Assistant Professor of English.*  
 James Christopher Corliss, A.M., *Assistant Professor of Romance Languages.*  
 Courtland Darke Baker, A.M., *Assistant Professor of English.*  
 Douglas Bement, A.M., LL.B., *Assistant Professor of English*  
 Irene Cornwell, Ph.D., *Assistant Professor of Romance Languages.*  
 Florence Marie Mears, Ph.D., *Assistant Professor of Mathematics.*  
 Edgar William Woolard, Ph.D., *Assistant Professor of Mathematics.*  
 Elizabeth Adams Lathrop, A.B., *Assistant Professor of Library Science.*  
 Henry Goddard Roberts, A.M., *Assistant Professor of Public Speaking*  
 Paul William Bowman, Ph.D., *Assistant Professor of Botany.*  
 Raymond John Seeger, Ph.D., *Assistant Professor of Physics.*  
 Arthur Howard Hughes, Ph.D., *Assistant Professor of German.*  
 Thelma Hunt, Ph.D., *Assistant Professor of Psychology.*  
 Ernest Sewall Shepard, A.M., *Assistant Professor of English.*  
 Harold Friend Harding, A.M., *Assistant Professor of Public Speaking.*  
 \*William Crane Johnstone, jr., Ph.D., *Assistant Professor of Political Science.*  
 Lawson Edwin Yocum, Ph.D., *Assistant Professor of Botany.*  
 Martha Gibbon, A.M., *Assistant Professor of English.*  
 Ralph Dale Kennedy, Ph.D., *Assistant Professor of Economics.*  
 DeWitt Clinton Knowles, M.S., *Assistant Professor of Chemistry.*  
 Grace Guile Purse, A.B., M.D., *Lecturer on Hygiene.*  
 Maude Nelson Parker, *Lecturer in Physical Education for Women.*  
 Fred Everett Nessell, A.B., *Lecturer in English.*  
 Mary Quick Bowman, A.M., *Instructor in Zoology.*  
 Claud Max Farrington, A.B., B.S., *Instructor in Physical Education for Men.*  
 Helen Bennett Lawrence, *Instructor in Physical Education for Women.*  
 Jean Elyle Sexton, A.B., *Instructor in Physical Education for Men.*  
 John Walter Brandt, M.S., *Instructor in Chemistry.*  
 Herman Henry Kaveler, Ph.D., *Instructor in Chemistry.*  
 Agnes MacAulay Rodgers, M.S., *Instructor in Physical Education for Women.*  
 Franc Paul Gaston Thénau, A.M., *Instructor in Romance Languages.*  
 Leonard Patrick Walsh, A.B., *Instructor in Physical Education for Men.*

\* On leave second semester 1933-34.



- Ralph Jordan Bailey, Ph.D., *Instructor in Zoology.*  
 Gretchen Louisa Rogers, A.M., *Instructor in German.*  
 William Henry Myers, A.B., *Instructor in Physical Education for Men.*  
 John James Elson, Ph.D., *Instructor in English.*  
 David Halbert Howard, jr., Ph.D., *Instructor in Chemistry.*  
 George Winchester Stone, jr., A.M., *Instructor in English.*  
 Eugenia Galtsoff, *Associate in Zoology.*  
 Katherine Elizabeth Parker, A.M., M.D., *Associate in Zoology.*  
 James Louis Thomas, Ph.D., *Associate in Physics.*  
 Henry Joseph Wing, Ph.D., *Associate in Physics.*  
 Ross E. Pollock, jr., A.M., *Teaching Fellow in Psychology.*

COMMITTEES\*

THE DEAN'S COUNCIL†

1934

Willard Hayes Yeager  
 Merle Irving Protzman

1935

Richard Norman Owens  
 Lowell Joseph Ragatz

1936

Daniel Houston Buchanan  
 Alan Thomas Deibert

COMMITTEE ON ADMISSION AND ADVANCED STANDING

Harold Griffith Sutton, *Chairman*

Warren Reed West  
 Audley Lawrence Smith

Paul William Bowman  
 Mitchell Dreese

COMMITTEE ON SCHOLARSHIP

Audley Lawrence Smith, *Chairman*

Merle Irving Protzman  
 Edgar William Woolard

Anna Pearl Cooper  
 Lawson Edwin Yocum

COMMITTEE ON REGISTRATION

Douglas Bement, *Chairman*

John Albert Tillema  
 Ernest Sewall Shepard

Irene Cornwell  
 Ralph Dale Kennedy

\* The President of the University and the Dean of the Junior College are ex-officio members of all committees.

† Elected by the Faculty.

## COMMITTEE ON LIBRARY

Elmer Louis Kayser, *Chairman*

Daniel Houston Buchanan

Thelma Hunt

Henry Goddard Roberts

William Crane Johnstone, jr.

## COMMITTEE ON DISCIPLINARY RELATIONS

Benjamin Douglass Van Evera, *Chairman*

Dudley Wilson Willard

Frank Mark Weida

Ruth Harriet Atwell

Florence Marie Mears

## JUNIOR COLLEGE ADVISERS

*General*—Anna Pearl Cooper, Lowell Joseph Ragatz, Daniel Houston Buchanan, Benjamin Douglass Van Evera, Alan Thomas Derbott, Audley Lawrence Smith, Douglas Bement, Irene Cornwell, Florence Marie Mears, Edgar William Woolard, Henry Goddard Roberts, Raymond John Seeger, Arthur Howard Hughes, Ernest Shepard, Harold Friend Harding, William Crane Johnstone, jr., Martha Gibbon, DeWitt Clinton Knowles, Mary Quick Bowman, Herman Henry Kaveler.

*Bachelor of Science*—Thomas Benjamin Brown, Lawson Edwin Yocum, John Walter Brandt.

*Commerce and Business Administration*—Ralph Dale Kennedy.

*Government and Foreign Service*—Warren Reed West.

*Prelegal*—Carville Dickinson Benson, jr.

*Premedical*—Paul William Bowman.

*Engineering*—Arthur Frederick Johnson.

*Pharmacy*—William Paul Briggs.

*Library Science*—Elizabeth Adams Lathrop.

*Fine Arts*—Norris Ingersoll Crandall.

*Education*—Mitchell Dreese.

*Home Economics*—Frances Kirkpatrick.

*Physical Education*—Ruth Harriet Atwell, Claud Max Farrington, William Henry Myers.

## GENERAL INFORMATION

## INTRODUCTORY

The Junior College curricula are intended to continue the studies of general cultural nature begun in the secondary schools, and to lay a foundation

tion for the more specialized work which is to follow. During the freshman and sophomore years emphasis is accordingly laid (1) upon the social, cultural, biological, and physical background of civilization (history, political science, physical and biological sciences, literature, etc.) and (2) upon the discipline necessary to the effective prosecution of more advanced work (English rhetoric and composition, foreign language, mathematics, etc.).

The Junior College also provides the preprofessional work required for admission to the Schools of Law, Medicine, Pharmacy, Education, and Government, and the Divisions of Library Science and Fine Arts.

In addition it provides two two-year curricula, leading to the Junior Certificate, which are intended to meet the needs of students who do not look forward to a four-year college course.

#### ADVISORY SYSTEM

In order that students may have abundant opportunities, not only for assistance in planning their courses of study, but also for personal, educational, and vocational advice in every phase of their academic work during the first two years, a number of members of the Faculty serve as advisers to Junior College students. Incoming students will be assigned to advisers at or as early as possible after registration and will be required to consult them at least once each semester. Students on probation and "warned" students are required to consult their respective advisers at such stated intervals as the Dean or adviser may direct. (See regulations on scholarship and "warnings", below.) All students are, however, encouraged to consult their advisers about college problems at any time, irrespective of these requirements. Students are expected to consult with the same advisers throughout their freshman and sophomore years, it being understood that these members of the Faculty act in the capacity of general educational advisers rather than as representatives of their respective departments of instruction.

#### ADMISSION

For a statement of the general regulations and procedure for admission to the University, see pages 48-52.

Candidates for admission to the Junior College must submit at least fifteen units of accredited secondary-school work. For regulations regarding distribution of these units, particularly for admission to the pre-medical curriculum, see below.

No candidate will be accepted with any condition in secondary-school work.

Special students and auditors are referred to the Division of University and Extension Students.



## METHODS OF ADMISSION

The following are the methods of admission to the Junior College:

## A. BY CERTIFICATE FROM AN ACCREDITED SCHOOL

(a) *Quality of Work.*—The quality of work must be satisfactory. Graduates of schools regionally accredited must rank in the upper four fifths of their class. (Students entering the University in the fall semester of 1935 must rank in the upper three fifths in order to be eligible by certificate.) Graduates of schools which are State accredited only, must rank in the highest fifth of their class.

(b) *Distribution of Units.*—Except for admission to the premedical curriculum, certification by the principal that the student has satisfied all curriculum requirements of the school will be accepted in lieu of any prescribed distribution of units. Attention is called, however, to the necessity of completing stated prerequisite studies during the secondary-school period for admission to certain curricula, such as Architecture. For a statement of the foreign-language requirements, see page 90.

For admission to the premedical curriculum the required units must include: English, three units; foreign language, two units (Latin is desirable, and both units must be in the same language); Algebra, one unit; Geometry, one unit; History, one unit; Science, one unit of Botany, Chemistry, Physics, or Zoology. Two additional units must be in English, foreign language, Mathematics, Science, or History; electives, four units. No candidate will be accepted with any condition in secondary-school work.

## B. BY THE GEORGE WASHINGTON UNIVERSITY ENTRANCE EXAMINATIONS

These examinations are open to graduates of properly accredited schools whose scholarship does not warrant admission on certificate.

## C. BY COLLEGE ENTRANCE BOARD EXAMINATIONS

Admission may be by College Entrance Board Examinations in fifteen specified units, for which passing grades are achieved, when it is not possible to present a certificate covering satisfactory units earned in an accredited school. These units shall include, for curricula other than the premedical curriculum, subjects from each of the following fields: English, foreign languages, Mathematics, and Science.

## SCHOLASTIC-APTITUDE TESTS

Candidates admitted under any of the above methods will be required in addition to pass the scholastic-aptitude tests of the University.

## REGISTRATION

For information and regulations regarding registration, see pages 53-54

### FEES AND FINANCIAL REGULATIONS

For a statement of fees and financial regulations, see pages 55-59.

### SCHOLARSHIPS, PRIZES, LOAN FUNDS

The following scholarships may be assigned in the Junior College: Maria M. Carter Scholarship; Citizens' Military Training Camps Scholarship; Isaac Davis Scholarship; Elma Lewis Harvey Scholarship; John Hitz Metzerott Scholarship; David Spencer Scholarship.

For particulars regarding scholarships, prizes, and loan funds, see pages 60-68.

### GENERAL REGULATIONS

*Students in the Junior College are subject to, and are expected to familiarize themselves with, the general University regulations stated on pages 48, 59 and 69-74.*

### AMOUNT OF WORK

Fifteen semester-hours, not including required Physical Education, constitutes normal work. Students not on probation may be permitted by the Dean to take sixteen or seventeen semester-hours.

Students having a total quality-point index of 3.50 may, with the permission of the Dean, take eighteen or nineteen semester-hours. No student may take more than nineteen semester-hours, except with the permission of the Scholarship Committee.

For employed students working more than twenty-four hours a week, nine semester-hours, not including required Physical Education, is normal work. Employed students not on probation may be permitted by the Dean to take ten semester-hours. Employed students having a total quality-point index of 3.50 may be permitted by the Dean to take twelve or thirteen semester-hours.

### ATTENDANCE

The student is held responsible to the instructor in charge of the course for which he is registered for all the work of the course, and all absences must be excused before provision will be made for him to make up the work missed.

With the exceptions noted below, occasional absences, not to exceed in number for each semester the semester-hours of credit for the semester, will be automatically excused. (Where a course has distinct divisions, such as lectures, laboratories, recitations, etc., these excuses apply pro rata to such separate divisions.) In applying this rule, absences adjacent to holiday periods are to be counted double.

Such automatic excuses are intended to cover the occasional minor exigencies and not to constitute an indiscriminate privilege. Students on probation are allowed no automatic excuses.

Excuses for absences from two or more consecutive class periods and for absences from examinations which have been announced in advance, can be obtained only by making written application to the Dean of the Junior College. All other absences may be excused by the instructor in charge.

#### CLASSIFICATION OF STUDENTS

A student who has satisfactorily completed at least thirty-two semester-hours of work, including eighteen semester-hour credits in his curriculum requirements, shall be classed as a *sophomore*.

#### COURSES OF INSTRUCTION

The courses of instruction are listed in alphabetical order beginning on page 201.

#### THE CERTIFICATE OF JUNIOR STANDING

Upon the satisfactory completion of the requirements of the Junior College, a Certificate of Junior Standing is granted. This certificate is required for admission to the junior class of **Columbian College** and to the professional Schools which require two years of preprofessional work (see "Curriculum Requirements", below).

#### REQUIREMENTS FOR THE CERTIFICATE

To be recommended for a certificate a student must satisfy the admission, residence, scholarship, and curriculum requirements. Particular attention is called to the statement of graduation requirements on pages 71-73.

#### SCHOLARSHIP

The system of grading and of computing scholarship is described in detail on pages 70-71.

In order to receive a Junior Certificate a student must have a quality-point index of at least 2.00 on his complete record.

*Honor Roll*—The names of those students who have a quality-point index of 3.50 or higher on the basis of their complete record will be placed on the honor roll and published. No consideration is given to those who have completed a total of less than fifteen semester-hours. A place on the honor roll does not necessarily mean that the student will receive honors upon graduation.

*Probation*—Students must maintain a quality-point index of at least 1.50 or they are placed on probation. The cases of students having a quality-point index between 1.75 and 1.50, however, will be considered individually by the Scholarship Committee, which may retain or remove



their probation. A student remains on probation as long as his quality-point index is below 1.50, or until his probation is removed by the Scholarship Committee.

*Dismissal.*—A student who has a total quality-point index below 1.00 will be dropped. The cases of students having a total quality-point index between .85 and 1.00, however, will be considered individually by the Scholarship Committee, which may retain them on probation or drop them.

A student who receives a grade of *E* or *F* in two courses in any two out of three successive semesters will be dropped.

Students who fall under probation for the third semester, whether successive or after an interval, will be dropped.

Students dropped for poor scholarship may apply for readmission after an interval of a calendar year. A student applying for readmission under this rule must submit evidence to the Committee on Admission and Advanced Standing that during this absence from the University he has so conducted himself as to indicate that he will profit by readmission. Students dropped twice for poor scholarship will not be readmitted.

For the purpose of these rules, the Summer Sessions are considered a semester.

*Warnings.*—At stated intervals during the academic year instructors shall file in the Office of the Registrar the names of those students who are doing work of *D* grade or lower. These "warnings" shall be transmitted to the students concerned and copies forwarded to their respective advisers. Upon request a parent or guardian may receive a copy of a warning notice sent to a student. A warning constitutes notice to the student that he must consult his adviser within a reasonable time and in any case not later than two weeks after receipt of the warning. "Warning periods" are established as follows: First semester—November 1 to recess. Summer Sessions—six-week courses, third to fourth week; nine-week courses, fourth to fifth week.

In the case of students with limited schedules, the foregoing scholarship rules are applied only when the student has undertaken fifteen semester-hours or multiples thereof, unless he receives a grade of *E* or *F* in two courses in any two out of three successive semesters.

### PHYSICAL EDUCATION

The Physical Education requirement consists of the prescribed assignments (see the announcement of Physical Education courses, pages 279-85) to be taken in the freshman and sophomore years by all students.

### CURRICULUM REQUIREMENTS

The following curricula lead to the Junior Certificate and, with the exception of the specialized Junior College curricula, qualify the holder

to apply for admission to Columbian College (the Senior College) and the professional Schools and Divisions. Provision is made for certain differentiations to meet the needs of preparing for the several professional fields. Graduation from the Junior College does not, however, automatically admit a student to the Senior College or a professional School or Division.

A detailed statement of the various Junior College curricula will be found in the table facing pages 9-11.

After selecting a curriculum, a student is not permitted to change to another except with the permission of the Dean and on condition that he fulfil the requirements of the curriculum to which he changes.

The curriculum requirements include at least sixty-four semester-hours of credit. A semester-hour of credit is one recitation or lecture a week or one laboratory period a week for one semester.

**Junior College students may not take second-group courses (courses numbered above 100) without the written permission of the instructor and of the Dean of the Junior College.** A student will not be permitted to postpone a first-group course, required under the curriculum for which he is registered, in order to take a second-group course for elective credit. The principle that first-group courses must be taken in the Junior College years and advanced courses in the Senior College and the professional Schools, will be rigidly adhered to in approving student programs.

#### A. THE JUNIOR COLLEGE CURRICULA (TWO YEARS)

**I. General Curriculum.**—This curriculum is intended for students who do not look forward to a four-year college course or to advanced study in the liberal arts or in the sciences. Through study with the best thought in the fields of human endeavor, it aims to provide the essential intellectual background of an educated person and to lay the foundations upon which may be built a solid structure of broad knowledge and training in good citizenship.

**II. Business and Secretarial Curriculum.**—This curriculum, when supplemented by adequate training and experience in shorthand, bookkeeping, writing, office practice, etc., is intended to furnish a fundamental business education in preparation for positions as secretaries and minor business executives.

#### B. CURRICULA FOR ADMISSION TO COLUMBIAN COLLEGE

**I. Curriculum Leading to the Degree of Bachelor of Arts.**—This curriculum comprises the first two years of a standard four-year course in arts and letters, leading to the degree of Bachelor of Arts, which is granted by Columbian College.

**II. Curriculum Leading to the Degree of Bachelor of Science.**—These curricula constitute two-year courses with emphasis upon the sciences.

Students intending to study in Columbian College for the Bachelor of Science degree in Botany, Geology, or Zoology, should follow curriculum B 11-a. Those desiring the Bachelor of Science degree in Chemistry, Mathematics, or Physics, should follow curriculum B 11-b.

#### C. CURRICULA FOR ADMISSION TO THE SCHOOL OF EDUCATION

I. *Curriculum Leading to the Degree of Bachelor of Arts in Education* — This curriculum covers the required college work for entrance to the School of Education. The requirements may be modified in some instances on the basis of the work presented for entrance.

II. *Curriculum Leading to the Degree of Bachelor of Science in Home Economics* — This curriculum covers the first two years of preparation for majors in Home Economics, for prospective teachers and others, leading to the degree of Bachelor of Science in Home Economics.

III. *Curriculum Leading to the Degree of Bachelor of Science in Physical Education* — This curriculum covers the first two years of a four-year course in Physical Education for Men and Physical Education for Women, leading to the degree of Bachelor of Science in Physical Education.

#### D. CURRICULUM FOR ADMISSION TO THE LAW SCHOOL

This curriculum satisfies the requirements for the first two years of the combined course leading to the degrees of Bachelor of Arts and Bachelor of Laws (see page 130).

#### E. CURRICULUM FOR ADMISSION TO THE SCHOOL OF GOVERNMENT

This curriculum covers the work required for entrance to the following curricula which are offered in the School of Government: Government, Business Administration, Finance, Domestic Commerce, Foreign Service, and Foreign Commerce.

#### F. CURRICULUM FOR ADMISSION TO THE DIVISION OF LIBRARY SCIENCE

This curriculum is planned for students who expect to enter the Division of Library Science. It provides for a reading knowledge of French and German and outlines the work necessary as a basis for the technical work to follow.

#### G. CURRICULA FOR ADMISSION TO THE DIVISION OF FINE ARTS

I. *Curriculum Leading to the Degree of Bachelor of Arts in Architecture, Building, or Building Administration* — This curriculum covers the required college work for entrance to the Division of Fine Arts and satisfies the requirements of the first two years of the curricula which lead to the degrees of Bachelor of Arts in Architecture, in Building, and in Building Administration.



*II. Curriculum Leading to the Degree of Bachelor of Arts in Illustration or Art.*—This curriculum covers the required college work for entrance to the Division of Fine Arts and satisfies the requirements of the first two years of the curricula which lead to the degrees of Bachelor of Arts in Illustration and in Art.

#### **II. CURRICULUM FOR ADMISSION TO THE SCHOOL OF PHARMACY**

This curriculum covers the required college work for entrance to the School of Pharmacy and comprise the first two years of a four-year course leading to the degree of Bachelor of Science in Pharmacy.

#### **I. CURRICULUM FOR ADMISSION TO THE SCHOOL OF MEDICINE**

This curriculum covers the required college work for entrance to the School of Medicine and satisfies the requirements of the first two years of the combined course leading to the degrees of Bachelor of Arts and Doctor of Medicine (see pages 128-29).

#### **FOREIGN-LANGUAGE REQUIREMENTS**

The curriculum requirement in foreign languages is articulated with the admission requirements. For the Junior Certificate a student must have completed satisfactorily the equivalent of two college years in a single foreign language.

A student offering for admission four acceptable high-school units of a single foreign language, or the equivalent, is not required to take any foreign language. If he offers three units, he must complete the second semester of the second-year college course in the same language. If he offers two units, he must complete the entire second-year college course in the same language. If he offers one unit, he must complete the second semester of the first-year college course and the entire second-year course in the same language.

In some instances foreign languages are required or recommended as a preparation for advanced work in the Senior College and the professional Schools. Students should consult their advisers as to these requirements, so that appropriate foreign languages may be included, when necessary, in their Junior College programs.

#### **EXAMINATIONS FOR WAIVING CURRICULUM REQUIREMENTS\***

A student desiring to omit a required course may take such examination as the department prescribes, and, on passing satisfactorily, he may be relieved of the curriculum requirements in that subject and qualify for registration in an advanced course. Passing of this examination shall not

\* This provision does not apply to premedical students, all of whose required premedical work must be taken in a recognized college of arts and sciences.

C. I. EDUCATION ART		H. PHARMACY		I. PREMEDICAL	
English 1-2	6	English 1-2	6	English 1-2	6
French, German, Italian, Spanish, or elective 1	6			French, German, or Spanish 1	6
History	24				
Botany or Zoology		Botany 6 Chemistry 2x, 21x 8 Physics 11x..... 3	6	Chemistry 1 2 <sup>nd</sup> 8 Physics 11, 12 <sup>th</sup> 6 Zoology 1-2 6	
1, 4.	6	Pharmacy 1-2	4		
1-2.	6				
			3		
	2		2		2
32		32		34	

at least two years of  
regarding foreign  
the curriculum  
in: Physics, in-  
ometry is not

1 OLS

G-II. ART		H. PHARMACY		I. PREMEDICAL	
English 51-52 or 91-92.	6				
French, German, Latin, Spanish, or Architecture 25-26. <sup>1</sup>	6			French, German, Spanish, or elective. <sup>1</sup>	6
History 17-18	6				
Botany, Chemistry, Geology, Mathematics, Physics, or Zoology.	6 or 8	Chemistry 41-42 Physics 12 Zoology 1	8 1 3	Chemistry 41-42 Physics 13, 14 <sup>2</sup> Zoology 3	8 5 3
Architecture 25-26, foreign language, or Graphic Art 25-26.	6	Pharmacy 21-22, 23-24.	16		
					8
	2		2		2
32 or 34		32		32	

31  
3  
2  
1



make the student to any hours of credit toward the degree. Students desiring to take such examinations should make the request of the Dean.

A fee of \$5 for each examination is to be paid at the Comptroller's office and the receipt exhibited at the door of room 27, building W, on September 22 or 23 at 2 p.m. for the first semester, and on February 2 or 3 at 2 p.m. for the second semester. Two hours will be allowed for the examination. Should a student wish to take more than one examination, arrangements will be made accordingly.

#### HONORS

Honorable mention with the Junior Certificate may be granted to those students who have a total quality-point index of 3.50 or higher.



# COLUMBIAN COLLEGE

## THE FACULTY

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
—, *Dean of Columbian College.*

## STAFF OF INSTRUCTION

- William Allen Wilbur, A.M., Litt.D., LL.D., *Professor of English.*  
Paul Bartsch, Ph.D., *Professor of Zoology.*  
George Neely Henning, A.M., Litt.D., *Professor of Romance Languages.*  
Charles Sidney Smith, Ph.D., *Professor of Classical Languages.*  
Edward Elliott Richardson, M.D., Ph.D., *Elton Professor of Mental and Moral Philosophy.*  
Ray Smith Bassler, Ph.D., *Professor of Geology.*  
DeWitt Clinton Croissant, Ph.D., *Professor of English.*  
Robert Russ Kern, A.B., *Professor of Urban Sociology.*  
Charles Edward Hill, Ph.D., *Professor of Political Science.*  
Thomas Benjamin Brown, Ph.D., *Professor of Physics.*  
Henry Grattan Doyle, A.M., *Professor of Romance Languages.*  
Robert Fiske Griggs, Ph.D., *Professor of Botany.*  
John Donaldson, Ph.D., *Professor of Political Economy.*  
George Morton Churchill, Ph.D., *Professor of History.*  
Samuel Flagg Bemis, Ph.D., *Professor of History.*  
Colin Mackenzie Mackall, Ph.D., *Professor of Chemistry.*  
Edward Henry Sehr, Ph.D., *Professor of German.*  
Richard Norman Owens, Ph.D., C.P.A., *Professor of Accounting and Business Administration.*  
Robert Whitney Bolwell, Ph.D., *Professor of American Literature.*  
\*Walter Lynn Cheney, Ph.D., *Professor of Physics.*  
James Henry Taylor, Ph.D., *Professor of Mathematics.*  
Willard Hayes Yeager, A.M., *Depew Professor of Public Speaking.*  
†Fred August Moss, Ph.D., M.D., *Professor of Psychology.*  
Dudley Wilson Willard, Ph.D., *Professor of Sociology.*  
Elmer Louis Kayser, Ph.D., *Professor of History.*

\* On sabbatical leave 1933-34

† On sabbatical leave first semester 1933-34.



Cecil Knight Jones, B Litt., *Professorial Lecturer on Spanish-American Literature.*

Ralph Edward Gibson, Ph.D., *Professorial Lecturer in Chemistry.*

Harold Griffith Sutton, M.S., *Associate Professor of Finance.*

Anna Pearl Cooper, A.M., *Associate Professor of English.*

Merle Irving Protzman, A.M., *Associate Professor of Romance Languages.*

Warren Reed West, Ph.D., *Associate Professor of Political Science.*

\*John Albert Tillema, Ph.D., LL.M., *Associate Professor of Political Science.*

Frank Mark Weida, Ph.D., *Associate Professor of Mathematics.*

Alva Curtis Wilgus, Ph.D., *Associate Professor of History.*

Francis Edgar Johnston, Ph.D., *Associate Professor of Mathematics.*

\*Lowell Joseph Ragatz, Ph.D., *Associate Professor of History.*

Daniel Houston Buchanan, Ph.D., Sc.D., *Associate Professor of Economics.*

Benjamin Douglass Van Evera, M.S., *Associate Professor of Chemistry.*

Alan Thomas Deibert, A.M., *Assistant Professor of Romance Languages.*

Audley Lawrence Smith, A.M., *Assistant Professor of English.*

James Christopher Corliss, A.M., *Assistant Professor of Romance Languages.*

Courtland Darke Baker, A.M., *Assistant Professor of English.*

Douglas Bement, A.M., LL.B., *Assistant Professor of English.*

Irene Cornwell, Ph.D., *Assistant Professor of Romance Languages.*

Florence Marie Mears, Ph.D., *Assistant Professor of Mathematics.*

Edgar William Woolard, Ph.D., *Assistant Professor of Mathematics.*

Paul William Bowman, Ph.D., *Assistant Professor of Botany.*

Henry Goddard Roberts, A.M., *Assistant Professor of Public Speaking.*

Raymond John Seeger, Ph.D., *Assistant Professor of Physics.*

Ernest Sewall Shepard, A.M., *Assistant Professor of English.*

Thelma Hunt, Ph.D., *Assistant Professor of Psychology.*

†William Crane Johnstone, jr., Ph.D., *Assistant Professor of Political Science.*

Harold Friend Harding, A.M., *Assistant Professor of Public Speaking.*

Lawson Edwin Yocum, Ph.D., *Assistant Professor of Botany.*

Christopher Browne Garnett, jr., Ph.D., *Assistant Professor of Philosophy.*

Ralph Dale Kennedy, Ph.D., *Assistant Professor of Economics.*

DeWitt Clinton Knowles, M.S., *Assistant Professor of Chemistry.*

Joseph Alfred Ambler, Ph.D., *Lecturer in Chemistry.*

\* On sabbatical leave 1933-34.

† On leave second semester 1933-34.

- Raleigh Gilchrist, Ph.D., *Lecturer in Chemistry.*  
 Elwood Street, A.M., *Lecturer in Sociology.*  
 Thomas Fredrik Weybye Barth, Ph.D., *Lecturer in Geology.*  
 J. Blaine Gwin, A.B., *Lecturer in Sociology.*  
 William Moore Loman, A.M., *Lecturer in Psychology.*  
 Paul Hugh Emmett, Ph.D., *Lecturer in Chemistry.*  
 Henry Furness Hubbard, A.M., *Instructor in Psychology*  
 Ralph Jordan Bailey, Ph.D., *Instructor in Zoology.*  
 John Withrow Brewer, Ph.D., *Instructor in Political Science.*  
 William Thomas McClosky, A.B., *Associate in Zoology.*  
 Charles Holcomb Popenoe, B.S., *Associate in Zoology.*  
 Constance Connor Brown, A.M., *Associate in Public Speaking.*  
 Donald Stubbs, A.M., M.D., *Associate in Psychology.*

## COMMITTEES\*

## THE DEAN'S COUNCIL†

1934

DeWitt Clinton Croissant

James Henry Taylor

1935

George Morton Churchill  
 Benjamin Douglass Van Evera

1936

Merle Irving Protzman  
 Frank Mark Weida

## COMMITTEE ON ADMISSION AND ADVANCED STANDING

The Dean of the College, *Chairman*Harold Griffith Sutton, *Secretary*

Audley Lawrence Smith

Edward Henry Sehr

## COMMITTEE ON SCHOLARSHIP

Paul William Bowman, *Chairman*

James Henry Taylor

Merle Irving Protzman

## COMMITTEE ON REGISTRATION

Warren Reed West, *Chairman*

Walter Lynn Cheney

Douglas Bement

\* The President of the University and the Dean of Columbia College are ex-officio members of all committees.  
 † Elected by the Faculty.

## COMMITTEE ON LIBRARY

Robert Whitney Bolwell, *Chairman*

Alan Thomas Deibert

John Albert Tillema

## COMMITTEE ON DISCIPLINARY RELATIONS

Anna Pearl Cooper, *Chairman*

Frank Mark Weida

Alva Curtis Wilgus

## GENERAL INFORMATION

## INTRODUCTORY

Columbian College was founded in 1821, during the presidency of James Monroe. A charter was obtained from Congress establishing "The Columbian College in the District of Columbia" for the "sole and exclusive purpose of educating youth in the English, learned and foreign languages, the liberal arts, sciences and literature", with full power to confer all degrees "usually granted and conferred in colleges".

Since the founding of old Columbian College, many other Schools and Divisions have been established to form the present George Washington University. In 1930 the name "Columbian College" was bestowed upon the Senior College.

## ADMISSION

For a statement of the general regulations and procedure for admission to the University, see pages 48-52.

Special students and auditors are referred to the Division of University and Extension Students.

## FOR THE BACHELOR'S DEGREES

Applicants for admission to Columbian College having the intention of becoming candidates for the degree of Bachelor of Arts must present a Certificate of Junior Standing based on curriculum A-1 or B-1 in the Junior College, or its equivalent (see page 88 and table facing pages 90-91). Students taking the combined Arts and Law or Arts and Medicine curriculum are subject to this regulation, and those taking the latter must include all the special premedical requirements (see page 123).

Applicants for admission to Columbian College having the intention of becoming candidates for the degree of Bachelor of Science must present a Certificate of Junior Standing based on curriculum B-II-a (Botany, Geology, or Zoology) or B-II-b (Chemistry, Mathematics, or Physics) in the Junior College, or its equivalent (see page 88 and table facing pages 90-91).



### FOR THE MASTER'S DEGREE

Applicants for admission to Columbian College having the intention of becoming candidates for the degree of Master of Arts must present a baccalaureate degree from an accredited institution and a transcript of the studies previously pursued. Students from unaccredited institutions may be admitted at the discretion of the Dean, but such students are required to take such extra work above the minimum requirements as may be prescribed. The program of study pursued for the baccalaureate degree must have been such as to qualify candidates for pursuing the subjects chosen for the Master's degree.

### REGISTRATION

For information and regulations regarding registration, see pages 53-54.

### FEES AND FINANCIAL REGULATIONS

For a statement of fees and financial regulations, see pages 55-59.

### FELLOWSHIPS, SCHOLARSHIPS, PRIZES, LOAN FUNDS

Fellowships are available in the Departments of Botany, Chemistry, Economics, English, History, Mathematics, Physics, Psychology, and Zoology. Details regarding qualifications and application for these fellowships will be found on page 60.

The following scholarships may be assigned in Columbian College: Byron Andrews Scholarships; Maria M. Carter Scholarship; Isaac Davis Scholarship; Robert Farnham Scholarship; Elma Lewis Harvey Scholarship; A. Morehouse Scholarship; David Spencer Scholarship; Mary Lowell Stone Scholarship; William Walker Scholarship; John Withington Scholarship; Ellen Woodhull Scholarship.

For particulars regarding scholarships, prizes, and loan funds, see pages 60-68.

### DIVISIONAL ORGANIZATION

The instructional organization of Columbian College is contained in the divisions. The divisional and departmental officers administer the educational requirements for students majoring within the divisions. The divisions are as follows: (1) *the Division of Languages and Literatures*, which comprises the Departments of Classical Languages and Literatures, English, Germanic Languages and Literatures, and Romance Languages and Literatures; (2) *the Division of Mathematics and the Physical Sciences*, which comprises the Departments of Chemistry, Mathematics, and Physics; (3) *the Division of the Natural Sciences*, which comprises the Departments of Botany, Geology, Psychology, and Zoology; (4) *the Division of the Social Sciences*, which comprises the Departments of Eco-

nomics, History, Philosophy, Political Science, Public Speaking, and Sociology.

#### INDEPENDENT STUDY PLAN

Under the independent study plan a student of demonstrated capacity with special interest in a course, may, upon approval of his project by the instructor in charge and by the Dean, be permitted to undertake independent study under the personal direction of the instructor. Under this plan the student, though relieved of formal class requirements, will cover the essentials of the course and, in addition, will develop the particular field of his project. Any project may be terminated at the end of any semester at the option of either student or instructor.

#### GENERAL REGULATIONS

*Students in Columbian College are subject to, and are expected to familiarize themselves with, the general University regulations stated on pages 48-50 and 69-74.*

#### AMOUNT OF WORK

Full-time students who are in good standing (not on probation) may take up to seventeen semester-hours. Students employed more than twenty-four hours a week, who are in good standing, may take up to ten semester-hours.

Full-time undergraduate students whose quality-point index is 3.50 or higher, may take up to nineteen semester-hours.

#### ATTENDANCE

The student is held responsible for all the work of the courses in which he is registered, and all absences must be excused by the instructor in charge before provision is made for him to make up the work missed.

#### CLASSIFICATION OF STUDENTS

A student who has completed less than thirty semester-hours in Columbian College, and who has registered his major at the Office of the Registrar, is classed as a *junior*.

A student who has completed thirty semester-hours in Columbian College, including at least one course in his major, is classed as a *senior*.

A student who has satisfactorily completed the work for the baccalaureate degree, and who has registered his major at the Office of the Registrar, is classed as a *master in course*.

#### COURSES OF INSTRUCTION

The courses of instruction are listed in alphabetical order beginning on page 201.

## THE BACHELOR'S DEGREES

Upon the satisfactory completion of the undergraduate requirements of Columbian College, the degree of Bachelor of Arts or Bachelor of Science is conferred.

In conjunction with the professional curricula the following combined curricula are offered: a six-year curriculum leading to the degrees of Bachelor of Arts and Bachelor of Laws, and a seven-year curriculum leading to the degrees of Bachelor of Arts and Doctor of Medicine.

### REQUIREMENTS FOR THE DEGREES

To be recommended for a degree a student must satisfy the admission, residence, scholarship, and curriculum requirements. *Particular attention is called to the statement of graduation requirements on pages 71-73.*

#### SCHOLARSHIP

The system of grading and of computing scholarship is described in detail on pages 70-71.

In order to graduate a student must have a quality-point index of at least 2.00. In addition he must have a quality-point index of at least 2.50 in his major subject.

**Probation.**—Students must maintain a quality-point index of at least 2.00 or they are placed on probation. Students remain on probation as long as they fail to attain this index.

**Dismissal.**—Students having a quality-point index below 1.00 or who are placed on probation for a third semester, whether successive or after an interval, are suspended.

Students suspended for poor scholarship may apply for readmission after an interval of a calendar year. A student applying for readmission under this rule must submit evidence to the Committee on Admission and Advanced Standing that during this absence from the University he has so conducted himself as to indicate that he will profit by readmission. Students suspended twice for poor scholarship are not readmitted.

For the purpose of these rules, the Summer Sessions are considered a semester.

In the case of students with limited schedules, the foregoing scholarship rules are applied only when the student has undertaken fifteen semester-hours or more.

### CURRICULUM REQUIREMENTS

Every candidate for graduation must satisfy one of the four curricula listed below leading to the degree of Bachelor of Arts or Bachelor of Science. The curriculum requirements include at least sixty semester-hours of credit beyond that of the Junior College.



After selecting a curriculum, a student may not change to another except by permission of the Dean and on condition that he fulfil the requirements of the curriculum to which he changes.

The freshman and sophomore years of each curriculum will be found in the announcement of the Junior College.

The requirements for the major in the several departments of instruction are stated immediately preceding the announcement of courses offered, in the case of curricula B-1, B-11-a, and B-11-b in Columbian College. The first year of Law or Medicine satisfies the requirements for the major in the combined Arts and Law and Arts and Medicine curricula respectively.

Students are required to select and file with the Registrar a choice of a major upon entering Columbian College. Students may change the major only with the consent of the Dean and the executive officers of the departments concerned.

Not less than thirty of the required sixty semester-hours must consist of second-group courses (numbered 101-200) or third-group courses (numbered above 200). The first year of Law or Medicine is considered as satisfying this requirement in the combined Arts and Law and Arts and Medicine curricula respectively.

#### BACHELOR OF ARTS

**B-1.\* General Curriculum.** The work of the junior and senior year and a major must be arranged by consultation with the major department and must be approved by that department and the Dean.

**D. Combined Curriculum: Bachelor of Arts and Bachelor of Laws.**—The curriculum contemplates three years of collegiate study and three years in The George Washington University Law School, thus effecting a saving of one year.

**I. Combined Curriculum: Bachelor of Arts and Doctor of Medicine.**—This curriculum contemplates three years of collegiate study and four years in The George Washington University School of Medicine, thus effecting a saving of one year.

Students wishing to avail themselves of the opportunity afforded by the combined curricula must obtain the recommendation of the Dean of Columbian College at the time of entering the professional School. Upon the completion of the first year of the regular curriculum in the professional School, and upon the recommendation of its Dean, the degree of Bachelor of Arts will be conferred.

The entire work must be upon the scholarship level required for graduation. Credit is not given for professional work taken in another institution.

Students entering the Law School or the School of Medicine of The George Washington University with two or more years of preprofessional

\* See the table of the Junior College curricula, facing pages 90-91.

work of satisfactory quality, who thereupon complete the requirements for a degree in either of these Schools and present the recommendation of its Dean, may obtain the degree of Bachelor of Arts upon the completion of thirty semester-hours of satisfactory work in Columbian College.

#### BACHELOR OF SCIENCE

The work of the junior and senior years and a major in one of the six sciences mentioned below, must be arranged by consultation with the major department and must be approved by that department and the Dean.

B-11 a. *Botany, Geology, and Zoology Curriculum.*—Geology 21-22 must be taken if not elected earlier.

B-11-b. *Chemistry, Mathematics, and Physics Curriculum.*—If Botany has been elected earlier, Geology 21-22 or Zoology 1-2 must be taken. If Geology has been elected earlier, either Botany 1 and 2 or Zoology 1-2 must be taken.

#### EXAMINATIONS FOR WAIVING CURRICULUM REQUIREMENTS

A student desiring to omit a required course may take such examination as the department prescribes, and, on passing satisfactorily, he may be relieved of the curriculum requirement in that subject and qualify for registration in an advanced course. Passing of this examination shall not entitle the student to any hours of credit toward the degree. Students desiring to take such examinations should make the request of the Dean.

A fee of \$5 for each examination is to be paid at the Comptroller's Office and the receipt exhibited at the door of room 27, building W, on September 22 or 23 at 2 p.m. for the first semester, and on February 2 or 3 at 2 p.m. for the second semester. Two hours will be allowed for the examination. Should a student wish to take more than one examination, arrangements will be made accordingly.

#### THE MASTER OF ARTS DEGREE

Upon the satisfactory completion of the graduate requirements of Columbian College, the degree of Master of Arts is conferred.

#### CANDIDACY

A student is formally recognized as a candidate for the Master's degree only when his application for candidacy has been approved by the major department and the Dean. Applications are made on a form obtainable at the Office of the Registrar, and such applications must be approved before the student undertakes the second half of his work.

Before being admitted to candidacy the student must show a reading knowledge (certified by the appropriate language department) of at least one modern foreign language to be selected by the major department.

## REQUIREMENTS FOR THE DEGREE

Candidates for the degree of Master of Arts must complete successfully thirty semester-hours of work forming a consistent plan of study. A thesis, counting six semester-hours of the above thirty semester-hours, may or may not be required at the discretion of the major department. At least eighteen semester-hours must be in the major subject, and at least twelve semester-hours, including the major, must be taken in Columbian College. Not more than twelve semester-hours may be taken in the School of Medicine or in the Law School, but such work may not be counted toward both the Master's degree and a degree in Medicine or Law.

Courses may be elected from one, two, or three departments with the approval of the major department. The program of study must include at least twelve semester-hours of third-group courses (numbered above 200), exclusive of the thesis, unless the major department gives written permission to count less.

Second-group courses (numbered 101-200) may be counted toward the Master's degree only when registration for advanced credit has been approved at the beginning of the course by the Dean of Columbian College and by the officer of instruction, and provided that the student shall have done such extra work on the courses as may be prescribed by the department concerned. No work counted toward a baccalaureate degree may be counted toward a Master's degree.

In addition to the course examinations, candidates must pass a general final examination on the major subject. The examination may be either oral or written, or both.

Advanced work in other institutions of learning may be credited toward the Master's degree to the extent of not more than six semester-hours upon presentation of detailed certificates of the work for which credit is sought. However, if such work in other institutions is done during the student's period of residence in The George Washington University, it will not be so counted unless the student has obtained the written permission of his major department *before* entering upon such work. Such allowance of credit will be at the discretion of the Committee on Admission and Advanced Standing.

Work completed here, or elsewhere, more than three years prior to registration for the Master's degree, will be counted only if the candidate successfully passes an examination on the subject matter of the work offered for credit.

A student who expects to continue his studies for the degree of Doctor of Philosophy after receiving the Master's degree is strongly advised so to plan his program from the beginning that work for the lower degree may count for the higher.



*Particular attention is called to the statement of graduation requirements on pages 71-73.*

#### RESIDENCE

A minimum of one year must be completed in residence. Summer Sessions work may be counted in residence, but in no case may the period of residence aggregate less than twenty-seven weeks. Unless special permission has been granted by the Dean to pursue the work elsewhere, the last work before graduation must be completed in residence.

No credit is granted for work done in absentia, i.e., without formal instruction here or at some other institution of learning, except for the thesis, which may be completed in absentia with the permission of the department concerned.

#### SCHOLARSHIP

Students whose scholarship is unsatisfactory may be suspended upon recommendation of the major department to the Dean. Regarding the system of grading, see pages 70-71.

#### THE THESIS

In case a thesis is required by the major department, it must be registered for not later than the beginning of the final year, unless the professor in charge of the thesis permits registration at the beginning of the final semester. For this purpose the nine weeks' term of the Summer Sessions is considered as a semester. The choice of the thesis subject must be approved by the professor in charge of the major and recorded in the Office of the Registrar by the date announced in the University calendar. The typewritten thesis in its final form must have the approval of the professor and must be presented to the Dean by the student not later than the date announced in the University calendar. Requirements regarding the form of the thesis are stated on page 73.



## THE GRADUATE COUNCIL

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Cloyd Heck Marvin, Ph.D., LL.D., *President of the University; Chairman of the Graduate Council.*

### STAFF OF INSTRUCTION

William Allen Wilbur, A.M., Litt.D., LL.D., *Professor of English*  
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George Neely Henning, A.M., Litt.D., *Professor of Romance Languages.*  
William Carl Ruediger, Ph.D., *Professor of Education.*  
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Robert Whitney Bolwell, Ph.D., *Professor of American Literature.*  
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Vincent du Vigneaud, Ph.D., *Professor of Biochemistry.*

\* On sabbatical leave first semester 1933-34.



Edward Bright Vedder, Sc.D., M.D., *Professor of Experimental Medicine*.  
 William John Cooper, A.M., Ed.D., LL.D., Litt.D., Sc.D., Pd.D., *Professor of Education*.

Albert Spear Hitchcock, Sc.D., *Professorial Lecturer in Botany*.

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Alva Curtis Wilgus, Ph.D., *Associate Professor of History*.

\*Lowell Joseph Ragatz, Ph.D., *Associate Professor of History*.

Leland Wilbur Parr, Ph.D., *Associate Professor of Bacteriology*.

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1934

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Alva Curtis Wilgus

William Cabell Van Vleck

1935

Ray Smith Bassler

Robert Whitney Bolwell

James Henry Taylor

1936

William Cullen French

Robert Fiske Griggs

Edward Henry Seibt

#### GENERAL INFORMATION

##### REGISTRATION

Before registration the applicant will file with the Director of Admissions transcripts showing that he has the Bachelor's degree from an approved institution and that he has had a year of graduate work equivalent to that required for the Master's degree in Columbian College. He will also file the names of three competent persons who may be called upon to give their estimates of his ability and training for carrying on research work in his chosen field.

The applicant will obtain the proper registration blanks from the office of the Chairman of the Graduate Council, where he will be directed to a member of the Council whom he desires to have serve as chairman of his consultative committee. This committee will examine and evaluate the applicant's credentials and may interview the applicant.

\*On sabbatical leave 1931-34

† The President of the University is an ex-officio member of the committee.

The consultative committee will designate five or six fields of learning for which the applicant will be held, will furnish an outline of the work to be done, and will send a copy of the outline to the Chairman.

The applicant will return to the office of the Chairman of the Graduate Council to complete his registration, and will go to the Bursar's Office to pay his fees. Thereupon the applicant becomes a Registrant for the degree of Doctor of Philosophy.

#### FEES AND FINANCIAL REGULATIONS

For information regarding fees and financial regulations, see pages 55-59.

#### TEACHING FELLOWSHIPS AND LOAN FUNDS

Teaching fellowships are available in the Departments of Botany, Chemistry, Economics, English, History, Mathematics, Physics, Psychology, and Zoology. Details regarding qualifications and application for these fellowships will be found on page 60.

For particulars regarding loan funds, see pages 67-68.

#### GENERAL REGULATIONS

*Registrants and Fellows in the Graduate Council are subject to, and are expected to familiarize themselves with, the general University regulations stated on pages 48-59 and 60-74.*

#### CHANGE OF COURSE AND WITHDRAWAL

A Registrant or Fellow desiring to change his course must secure the permission of the Chairman of the Graduate Council. In case of withdrawal from the University, prompt notice should be sent to the Chairman of the Graduate Council.

#### COURSES OF INSTRUCTION

The courses of instruction are listed in alphabetical order beginning on page 201.

#### THE DEGREE OF DOCTOR OF PHILOSOPHY

Upon the satisfactory completion of the requirements of the Graduate Council, the degree of Doctor of Philosophy is conferred.

#### REQUIREMENTS FOR THE DEGREE

##### CHOICE OF STUDIES

Registrants should in general choose their fields of study from one of the following divisions. Only with the permission of the Graduate Coun-

cil may all the work be in one department. The divisions are as follows: (1) *the Division of Languages and Literatures*, which comprises the Departments of Classical Languages and Literatures, English, Germanic Languages and Literatures, and Romance Languages and Literatures; (2) *the Division of Mathematics and the Physical Sciences*, which comprises the Departments of Biochemistry, Chemistry, Mathematics, Pharmacology, and Physics; (3) *the Division of the Natural Sciences*, which comprises the Departments of Anatomy, Bacteriology, Botany, Geology, Neurology, Pathology, Physiology, Psychology, and Zoology; (4) *the Division of the Social Sciences*, which comprises the Departments of Economics, Education, History, Law, Philosophy, Political Science, Public Speaking, and Sociology.

#### MODERN-LANGUAGE AND TECHNICAL REQUIREMENTS

On admission the Registrant should demonstrate his ability to use as a tool of research a reading knowledge of German, French, or Spanish. His consultative committee will designate the other language and technical requirements, which are to be fulfilled as early as possible and which must be satisfied before the Registrant takes his general examination. The Registrant will confer with the executive officers of the departments concerned for the exact date.

#### SELECTION OF THESIS SUBJECT

The Registrant must select his thesis subject and file it, approved by the professor in whose field the thesis falls, with the Chairman of the Graduate Council before he takes his general examination.

#### SUPERVISION

The quality of work performed by the Registrant shall be subject to the evaluation of the consultative committee, which shall report to the Chairman any unsatisfactory conditions which may be cause for the Registrant's discontinuance of his studies.

#### GENERAL EXAMINATION

By November 1, if he expects to receive his degree the following June, and by May 1, if he expects to receive his degree the following February, the Registrant must have passed a general examination testing him for comprehensive and thorough knowledge of his fields of learning, to be conducted by a committee appointed by the Chairman of the Graduate Council. This examination shall consist of two parts—one oral and one written. The questions and answers to the written examination shall be sent to the Chairman of the Graduate Council and shall become a part of the Registrant's file. The examination on the field in which the thesis



falls may, at the option of the committee, be left until the final examination.

Having passed his general examination the Registrant becomes a Fellow of the Graduate Council and a candidate for the degree.

#### FINAL YEAR OF CANDIDACY

The final year of candidacy shall be spent at The George Washington University unless permission is granted by the Graduate Council, on recommendation of the professor in charge of the Fellow's program, to spend it elsewhere. Such permission will not affect the requirement of taking the final examinations here.

#### THE DOCTORAL THESIS

Not later than the date specified in the University calendar the Fellow shall present to the Chairman of the Graduate Council two typewritten copies of his thesis in its final form and also a typewritten summary of the thesis consisting of not more than 2,500 words. The Chairman will present the Fellow's thesis to the chairman of the committee of the candidate. Requirements regarding the form of the thesis are stated on page 73.

The summaries of accepted theses will be printed in a volume forming a number of the University Bulletin. The successful candidate for the Doctorate is required to pay, before receiving his degree, a fee of \$50 to cover the expense of printing the summary of his thesis. The Fellow having received the degree of Doctor of Philosophy is urged to print his thesis in full.

#### FINAL EXAMINATION

When the Fellow is ready for his final examination on the thesis and on the field in which the thesis falls, he so informs the Chairman of the Graduate Council, who arranges for the examination. The final examination will be conducted by a committee composed of members of the division and experts from outside the University. The professor in charge of the Fellow's research will be chairman of this committee.



## THE SCHOOL OF MEDICINE

### THE FACULTY

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Earl Baldwin McKinley, A.B., M.D., *Dean of the School of Medicine.*  
Walter Andrew Bloedorn, A.M., M.D., *Assistant Dean in the School of Medicine; Medical Director of the University Hospital.*

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William Thornwall Davis, M.D., *Professor of Ophthalmology.*  
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Joseph Hiram Roe, Ph.D., *Professor of Biochemistry.*  
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George Byron Roth, A.B., M.D., *Professor of Pharmacology.*  
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Charles Stanley White, M.D., *Professor of Surgery.*  
Earl Baldwin McKinley, A.B., M.D., *Professor of Bacteriology.*  
Radford Brown, M.D., *Professor of Obstetrics and Gynecology.*  
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Vincent du Vigneaud, Ph.D., *Professor of Biochemistry.*  
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Karl Herman Langenstrass, M.D., *Associate Professor of Neuropathology.*



Daniel Bruce Moffett, A.B., M.D., *Associate Professor of Oto-rhino-laryngology.*

Leland Wilbur Parr, Ph.D., *Associate Professor of Bacteriology.*

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\* The President of the University and the Dean of the School of Medicine are ex-officio members of all committees

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DERMATOLOGY

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Aubrey David Fischer, M.D., *Visiting Surgeon.*  
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Alan Jeffries Chenery, M.D., *Visiting Surgeon.*

## ANESTHESIA

Cline N. Chipman, M.D., *Chief.*  
Charles Wilbur Hyde, M.D., *Visiting Surgeon.*  
Francis George Speidel, M.D., *Visiting Surgeon.*

## DENTISTRY

Harold Walter Krogh, D.D.S., *Visiting Surgeon.*  
Richard Knight Thompson, D.D.S., *Visiting Surgeon.*

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

Joseph Harris, A.B., M.D., *Chief of Service.*  
William Raymond Thomas, M.D., *Chief of Service.*  
William Preston Haynes, A.B., M.D., *Chief of Service.*  
George Nordlinger, A.B., M.D., *Chief of Service.*  
Clayton Howard Hixson, M.D., *Associate.*  
Bernard Notes, M.D., *Associate.*  
Laurence Lee Cockerille, M.D., *Associate.*  
Samuel Mayer Dodek, M.D., *Associate.*

GYNECOLOGY

Radford Brown, M.D., *Chief of Service.*  
Henry Lauran Darner, A.B., M.D., *Chief of Service.*  
Herbert Percy Ramsey, A.B., M.D., *Chief of Service.*  
Jacob Kotz, M.D., *Chief of Service.*  
Henry John Russell McNitt, B.S., M.D., *Associate.*  
Bernard Notes, M.D., *Associate.*  
Lawrence Lee Cockerille, M.D., *Associate.*  
Eather Alysylvia Nathanson, A.B., M.D., *Associate.*

DEPARTMENT OF PSYCHIATRY AND NEUROLOGY

PSYCHIATRY

William Alanson White, A.M., M.D., *Visiting Physician.*  
Harriet Elizabeth Twombly, A.B., M.D., *Visiting Physician.*

NEUROLOGY

Walter Freeman, Ph.D., M.D., *Visiting Physician.*  
Hyman David Shapiro, M.D., *Visiting Physician.*  
Herbert Hermann Schoenfeld, M.D., *Visiting Physician.*

DEPARTMENT OF LABORATORIES AND RADIOLOGY

PATHOLOGY

Roger Morrison Choisset, B.S., M.D., *Visiting Pathologist.*

SPECIAL CONSULTANTS

William Beverley Mason, M.D., *Consultant in Oto-rhino-laryngology.*  
Harry Hampton Donnally, A.M., M.D., *Consultant in Pediatrics.*

William Johnston Mallory, A.M., M.D., *Consultant in Medicine.*

Francis Randall Hagner, M.D., *Consultant in Urology.*

Charles Augustus Simpson, M.D., *Consultant in Dermatology.*

William Thornwall Davis, M.D., *Consultant in Ophthalmology.*

## GENERAL INFORMATION

### INTRODUCTORY

The School of Medicine of The George Washington University, the eleventh medical school established in the United States, opened in March 1825. The University Hospital and Dispensary were established in 1898 and made a part of the organization of the School.

The School is a member of the Association of American Medical Colleges and is one of the medical colleges which has been designated continuously as class "A" by the American Medical Association. The degrees of the School of Medicine are recognized by all State examining boards. It is one of the medical schools selected by the Secretary of War to maintain a Reserve Officers' Training Corps Unit, and it is accredited for all its work by the Combined (Royal) Medical Examining Boards in England.

### LOCATION AND ADVANTAGES

The city of Washington, with more than a half-million inhabitants, provides abundant clinical material. The University Hospital and Dispensary furnish clinical facilities and a large proportion of the materials studied in the courses in Pathology and Clinical Microscopy.

The Library of the Surgeon General's Office of the United States Army is the most complete general medical library in the world. In addition to its great collections of medical works, all leading medical periodicals of the world are available. This Library, as well as the Library of Congress, the Public Library, and the many excellent libraries of the various Government departments, is open to medical students.

The Army Medical Museum affords opportunity for studying the conditions met in military and general medicine and surgery. Its collection of anatomical and pathological specimens is unequalled by any other museum in this country. The Museum of Hygiene, the National Museum, the Smithsonian Institution, the Botanic Gardens, and the Department of Agriculture, all afford opportunities for study in Medicine and its allied sciences.

Aside from the special advantages offered for the study of Medicine, the cosmopolitan character of the city of Washington, its mild climate, its beauty, and its broad interests as the seat of the National Government, make it an ideal place for a medical student to pass four years of study.



### EQUIPMENT

*Medical School Building.*—The building housing the School of Medicine is a modern, five-story structure with lecture- and classrooms, laboratories, and students' rooms, equipped with modern improvements. A new four-story laboratory building has recently been erected adjacent to the main medical building.

*Laboratories.*—The major laboratories are for Anatomy, Biochemistry, Histology and Embryology, Physiology and Pharmacology, Bacteriology, Hygiene and Preventive Medicine, Clinical Microscopy, and Pathology. They are fully equipped to enable students to pursue adequately the laboratory courses and acquire the technical skill necessary in modern clinical and investigative work.

*Medical Library.*—The Library, with a librarian in charge, is open for study and reading from 9 a.m. to 5 p.m. and from 7 to 9 p.m. It contains a selected reference collection of more than 2,000 volumes, and provision is made to add to it the important new medical works. The principal medical periodicals are regularly received.

For purposes of advanced study and research the Library of the Surgeon General of the Army is available to all students and teachers through a service maintained by the Medical School Library.

### CLINICAL FACILITIES

*The University Hospital and the University Dispensary.*—The Hospital and Dispensary are part of the educational equipment of the University. They are adjacent to the School of Medicine and are controlled by the Faculty of Medicine. The Dispensary has a large out-patient service in all departments, to which several thousand visits are made annually. The Faculty believes that clinical teaching should be thoroughly systematized. To this end, all clinics are under the supervision of the Assistant Dean, who is also Medical Director of the Hospital. This insures the highest possible utilization of available clinical material for teaching purposes and proper supervision of clinicians and students; it brings the individual student into direct contact with patients and requires him to do under authoritative supervision the clinical and laboratory work necessary for diagnosis and treatment; and it permits proper interpretation of the conditions occurring during the progress of cases and promotes the keeping of adequate records. Clinical and clinicopathological conferences are held in which the history of cases, the physical findings, laboratory records, and the post-mortem pathology when available, are presented and correlated. The Assistant Dean assigns the students to the different clinics, and supervises the records, the attendance, and the instruction of students. Third-year students are assigned in rotation by sections for clinical instruction in the Dispensary.

*Gallinger Municipal Hospital.*—Clinical instruction is available in all branches of Medicine. A great wealth of clinical material is afforded in this hospital by ordinance of the municipal authorities of the District of Columbia, whereby one half of the patients are assigned for treatment and clinical teaching to members of the Faculty of this School, nominated by this University.

*Children's Hospital.*—Clinical instruction in Pediatrics and General and Orthopedic Surgery.

*Emergency Hospital and Central Dispensary.*—Clinical instruction in Medicine, Surgery—particularly in emergency surgery, fractures, and dislocations—Dermatology, and Orthopedics.

*Garfield Memorial Hospital.*—Clinical instruction in Medicine, including contagious diseases, Surgery, Gynecology, and Obstetrics.

*Providence Hospital.*—Clinical instruction in Medicine and Surgery.

*St. Elizabeth's Hospital.*—Clinical instruction in mental and nervous diseases, Medicine, Surgery, post-mortem work, and Gross Pathology. The hospital, with four thousand beds, is maintained by the United States Government. The psychiatric clinic is one of the largest in the world.

*The Episcopal Eye, Ear, Nose, and Throat Hospital.*—Clinical instruction in Ophthalmology, Otology, Laryngology, and Rhinology.

#### RESERVE OFFICERS' TRAINING CORPS, U. S. ARMY, MEDICAL UNIT

A Medical Unit of the Reserve Officers' Training Corps is established in this School by authority of the Secretary of War, and an officer of the Medical Corps of the Army is detailed to the University for supervision and instruction of the students in the Unit.

Membership in the Unit is voluntary and is open to any physically fit male student who is a citizen of the United States. The instruction is divided into two courses, the basic and the advanced. Students who satisfactorily complete the basic course may, up to the quota allowed by the War Department, and if they choose, enter the advanced course. Students who enter the advanced course receive pay from the Government amounting to approximately \$200. They are obligated to complete the course and to attend one summer camp of instruction for six weeks, for which the students will receive travel allowances, pay at the rate of \$21 a month, and will be provided with all camp equipment, uniforms, and medical attention. Students who successfully complete the course are recommended for commission in the Medical Section, Officers' Reserve Corps, provided they desire appointment. Selected graduates are given preference in appointment for internship in Army General Hospitals, where they receive the pay and allowance of a First Lieutenant of the Medical Corps.

### ADMISSION

The minimum requirement for admission is two years of college work, totaling at least sixty semester-hours, from an accredited college of arts and sciences.

### SPECIFIC EDUCATIONAL REQUIREMENTS

#### SECONDARY-SCHOOL REQUIREMENTS

Of the fifteen secondary-school units required, three must be in English, two in one foreign language (ancient or modern), one in Algebra, one in Geometry, one in History, and one in Science (Botany, Chemistry, Physics, or Zoology). Eleven of the units offered must be in English, foreign language, Mathematics, Science, and History. No candidate will be accepted with any condition in secondary-school work.

#### PREMEDICAL-COLLEGE REQUIREMENTS

1. Chemistry, twelve semester-hours as follows: (a) Eight semester-hours of General Inorganic Chemistry, of which at least four semester-hours are laboratory work. Qualitative Analysis may be counted as General Inorganic Chemistry. (b) Four semester-hours of Organic Chemistry, of which two semester-hours are laboratory work.

2. Physics, eight semester-hours, of which at least two semester-hours are laboratory work. It is recommended that this course be preceded by one in Trigonometry.

3. Biology, eight semester-hours, of which at least four semester-hours are laboratory work. This requirement may be satisfied by a course of eight semester-hours in either General Biology or Zoology, or by a course of four semester-hours each in Zoology and Botany, but not by Botany alone.

4. English composition and literature, six semester-hours. The usual introductory college course, or its equivalent. The student should develop facility in English expression.

5. Modern foreign language. A reading knowledge, preferably of French or German.

6. Electives. It is recommended that the remaining semester-hours required include: (a) Comparative Vertebrate Anatomy; (b) Qualitative and Quantitative Chemistry; (c) Social Science and Psychology.

No student will be accepted with any condition in college work.

### APPLICATION FOR ADMISSION

1. Forms upon which to submit records of secondary-school and college work will be furnished on request.

All credentials submitted are to be made out by the proper school and college authorities and mailed by them to the Director of Admissions.



The George Washington University, 2031 G Street NW., Washington, D. C. Photostat copies of credentials without the original signature of the certifying authority will not be accepted.

Each form must cover only work done at the school or college which fills out the form.

2. A recent photograph, with signature, is required of each applicant.

3. As the number of qualified applicants for admission to the School each year far exceeds its capacity, those who wish to insure admission are urged to secure from the schools and colleges attended, completely compiled premedical credentials and forward them for evaluation as long a time as possible before the opening of the School of Medicine in September.

#### ADVANCED STANDING

Students who have satisfactorily attended one or more terms at any other class-A medical school and who have the necessary preliminary educational requirements, may be admitted to advanced standing. No student, however, will be admitted to advanced standing in the senior class.

#### LEGAL STANDARDS

The laws relating to the preliminary educational qualifications required of physicians differ in many of the States, and candidates are advised that if they meet the premedical and other requirements of this School they will be able to comply with the legal demands of all State Examining Boards in the United States.

#### REGISTRATION AND ADMISSION TO CLASSES

Registration in the School of Medicine is for a period of one semester at a time. Acceptance by the School of a student's fees does not in any way obligate the School to accept the student for any subsequent semester, and the right is reserved to drop any student from the School whenever, in the interest of the student or the School, the Faculty deems it advisable to do so.

All matriculations and registrations must be completed within three days after the opening of the session.

All students are admitted to classes on presentation of the Comptroller's ticket issued when all required fees have been paid.

#### FEES AND FINANCIAL REGULATIONS

For a statement of fees and financial regulations, see pages 54-59.

All fees are payable at the Office of the Comptroller of the University, 2033 G Street NW. No student is permitted to complete registration or to attend classes until all fees are paid.

On account of the many applications for admission, and as the size of the freshman class is limited, places can be reserved only for those qualified

applicants who remit a deposit of \$100, which will be credited toward the tuition of the first semester. Should unusual circumstances arise whereby the matriculant is unable to attend, this initial payment, less a charge of \$25 for registration, transfer, etc., will be returned up to one month before the opening of the session, or thereafter provided the place is satisfactorily filled.

Fees due at registration must be paid within three days after the opening of the session.

Students will be required to pay for injury to apparatus and other college property. All breakage and loss not directly traceable to an individual student is assessed pro rata, and any unforfeited balance of the breakage deposit will be returned at the expiration of the course.

Fees for each semester (including the University fee) are \$250, payable in advance.

#### **COST OF TEXTBOOKS AND STUDENT EQUIPMENT**

The minimum cost of necessary textbooks and student equipment (microscope, drawing materials, glass slides, clinical thermometer, stethoscope, hemocytometer, etc.) is approximately as follows: first year, \$150; second year, \$87; third year, \$60; fourth year, \$60; total, \$357.

#### **SCHOLARSHIPS, PRIZES, LOAN FUNDS**

The John Hitz Metzgerott Scholarship is available to students in the School of Medicine. The Ordronaux Prize of \$100 is awarded to the member of the graduating class of the School of Medicine who has completed the four-year medical course with the highest scholastic standing. The following loan funds are available to students in the School of Medicine: Daughters of the American Revolution Loan Fund; Harmon Foundation Loan Fund; Henry Strong Educational Foundation Loan Fund; and the University Loan Fund.

For particulars regarding scholarships, prizes, and loan funds, see pages 60-68.

#### **DEPARTMENTS OF INSTRUCTION**

The work of the School is organized under the following departments: Anatomy; Bacteriology, Hygiene, and Preventive Medicine; Biochemistry; Dermatology and Syphilology; Medicine; Neurology; Obstetrics and Gynecology; Ophthalmology; Oto-rhino-laryngology; Pathology and Experimental Medicine; Pediatrics; Pharmacology and Therapeutics; Physiology; Psychiatry; Surgery; and Urology.

#### **CLINICS**

Courses of clinical instruction are included in the announcements of the clinical departments. The Assistant Dean prepares schedules of

clinics and of student section assignments to the various hospitals and dispensaries.

#### GENERAL REGULATIONS

*Students in the School of Medicine are subject to, and are expected to familiarize themselves with, the general University regulations stated on pages 48-59 and 69-74.*

#### ATTENDANCE

Absence consists in being away from a class or clinic during a scheduled period, entering after the class or clinic has begun, or leaving before either is dismissed.

Absence is not allowed unless an excuse is obtained from the Dean or the instructor.

Application for excuse for absence due to sickness must be accompanied by a certificate signed by the attending physician.

For every unexcused absence a department will deduct one half of 1 per cent from the student's final grade in the subject involved.

#### GRADES

Proficiency in all subjects is marked on a basis of *A* (90-100); *B* (80-90); *C* (75-80); *D* (65-74), condition; *E* (below 65), failure; *I*, incomplete. The passing grade in each subject is *C*.

#### ADVANCEMENT

Any student who has satisfactorily completed the required work of the first, second, or third year of the course and has passed all examinations is eligible for advanced standing, if approved by the Scholarship Committee. No student may be enrolled for the clinical work of the third and fourth years without first having qualified in all the premedical sciences.

#### FAILURE

A student who has failed in any subject will not be advanced until such failure is removed and then only by authority of the Scholarship Committee. All conditions must be removed at the next make-up examination period provided for this purpose.

#### EXAMINATIONS

Examinations may be written, oral, or practical, and will be held at the end of the first semester and at the end of the academic year.

A student who fails to appear at a regularly scheduled final examination will not be examined until the next regular examination, except by special



permission of the Scholarship Committee. For make-up examinations to remove conditions, a fee of \$5 will be charged for each subject.

#### CHANGE OF COURSE AND WITHDRAWAL

Course change and withdrawal are not allowed except upon authority of the Scholarship Committee.

To withdraw from a course a written request approved by the Dean is required. Withdrawal permits and course certificates are issued only to those who have a clear financial record with the University.

#### COURSES OF INSTRUCTION

The courses of instruction are listed in alphabetical order beginning on page 201.

#### SPECIAL UNDERGRADUATE AND GRADUATE ADVANTAGES IN THE SCHOOL OF MEDICINE

The payment of the University fee, charged all students, entitles them to certain health services described under the Department of Health Administration, page 242. Payment of this fee also secures for students certain student-activity privileges, which are explained on page 56.

All first-year students are given a comprehensive physical examination by the Department of Health Administration upon admission to the School of Medicine. The students are informed of the findings and advised regarding such measures as will tend to maintain a high standard of health.

#### HOSPITAL APPOINTMENTS

Interns are appointed annually in the University Hospital. Similar appointments are made to graduates and undergraduates of this School in the following hospitals of the District: Casualty Hospital; Children's Hospital; Columbia Hospital for Women; Emergency Hospital; Episcopal Eye, Ear, Nose, and Throat Hospital; Gallinger Municipal Hospital; Garfield Memorial Hospital; Providence Hospital; St. Elizabeth's Hospital; Sibley Hospital; Tuberculosis Hospital; and Walter Reed United States Army General Hospital.

Students who, after graduation, desire internships in hospitals outside the District of Columbia, should apply directly to the institutions which they wish to enter. A list of hospitals approved for intern training is published annually in the *Journal of the American Medical Association*, and a copy of the list may be consulted in the office of the Dean.

#### COMMISSION ON LICENSURE, DISTRICT OF COLUMBIA

Graduates who wish to take the examinations of the Commission on Licensure, District of Columbia, or desire to use the District license

for reciprocity with the States, should apply to the Secretary, Commission on Licensure, Healing Arts Practice Act, District Building, Washington, D. C.

#### UNIVERSITY MEDICAL SOCIETY

The George Washington University Medical Society was established in 1905. All alumni and members of the Faculty are eligible for membership on election. Meetings of the society are held in the School of Medicine on the third Saturday evening of each month from October to May. Senior students are required to attend the meetings of this society.

#### THE DEGREE OF DOCTOR OF MEDICINE

Upon the satisfactory completion of the requirements of the School of Medicine, the degree of Doctor of Medicine is conferred. The degree of Doctor of Medicine given by this University is recognized by all State Examining Boards in the United States.

#### REQUIREMENTS FOR THE DEGREE

Every candidate for graduation with the degree of Doctor of Medicine must be at least twenty-one years of age, of reputable character, and free of all indebtedness to the University. He must have satisfied the admission requirements, completed satisfactorily not less than four years of study as a matriculated student in Medicine, completed all required courses, and passed satisfactorily all prescribed examinations. Particular attention is called to the statement of graduation requirements on pages 71-72.

#### CURRICULUM REQUIREMENTS

The curricula leading to the degree are: (a) four-year curriculum leading to the degree of Doctor of Medicine; (b) a combined seven-year curriculum leading to the degrees of Bachelor of Arts and Doctor of Medicine.

#### COMBINED ARTS AND MEDICINE CURRICULUM

*Registration.*—Candidates register in the Junior College for the freshman and sophomore years of the premedical curriculum and in Columbian College for the junior year.

*Admission.*—Applicants must meet the premedical-college requirements outlined under "Admission", above.

*Course of Study.*—Candidates must complete at least ninety-four semester-hours of prescribed college work, not including Physical Education (at least thirty semester-hours and one year of residence must be completed in Columbian College), and the first year of the medical curriculum. On satisfactory completion of the work outlined above, the

student will be recommended for the degree of Bachelor of Arts. Upon completion of the fourth year in the medical curriculum the student becomes eligible for the degree of Doctor of Medicine.

In certain selected cases where students have completed three years of work in an approved college of arts, other than The George Washington University, with an excellent scholastic record, such students may be recommended to the University by the Faculty of Medicine for the degree of Bachelor of Arts in the University at large upon the completion of the first year in Medicine, provided a high standard of scholarship is maintained in the School of Medicine.

#### PLAN OF INSTRUCTION

Each year of the medical curriculum is divided into two semesters of sixteen weeks each. The curriculum for the degree of Doctor of Medicine must begin with the fall semester.

Under the order of the work there is a coordination in the offerings of the several departments which enables the student to concentrate his attention upon the subject materials in such a way that they can be readily understood and recognized as integrated parts of a unified training. The salient features in the method of instruction are thorough laboratory training, demonstrations, and clinical teaching, with recitations and lectures to clarify the many problems presented. The clinical material in the various hospitals and out-patient departments is utilized to the fullest extent for both clinical instruction and laboratory work.

#### HONORS

Candidates who have completed the four year medical course with an average grade of *A* may be recommended for graduation "with distinction".

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For catalogues, application blanks, and further information, address the Director of Admissions, The George Washington University, 2451 G Street NW., Washington, D. C.





## THE LAW SCHOOL

### THE FACULTY

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University.*

William Cabell Van Vleck, A.B., LL.B., S.J.D., *Dean of the Law School.*

### STAFF OF INSTRUCTION

Walter Collins Clephane, LL.M., LL.D., *Professor of Law.*

Edwin Charles Brandenburg, LL.M., *Professor of Law.*

John Wilmer Latimer, LL.B., *Professor of Law.*

William Cabell Van Vleck, A.B., LL.B., S.J.D., *Professor of Law.*

Charles Sager Collier, A.B., LL.B., S.J.D., *Professor of Law.*

\*Hector Galloway Spaulding, B.S., LL.B., S.J.D., *Professor of Law.*

Walter Lewis Moll, A.B., LL.B., S.J.D., *Professor of Law.*

Joseph Winston Cox, LL.B., *Professorial Lecturer in Law.*

Lloyd Hall Sutton, B.S., LL.B., *Associate Professor of Law.*

William Armstrong Hunter, A.B., LL.M., *Associate Professor of Law.*

William Thomas Fryer, A.B., LL.B., J.D., *Associate Professor of Law.*

Saul Chesterfield Oppenheim, A.M., J.D., S.J.D., *Associate Professor of Law.*

Carville Dickinson Benson, jr., A.B., LL.B., S.J.D., *Associate Professor of Law.*

James Forrester Davison, A.B., LL.M., S.J.D., *Assistant Professor of Law.*

John Albert McIntire, A.B., LL.B., *Assistant Professor of Law.*

Levi Russell Alden, A.M., LL.B., *Lecturer in Law.*

Gilbert Lewis Hall, A.B., LL.B., *Lecturer in Law.*

Clarence Altha Miller, LL.M., *Lecturer in Law.*

Ralph Hoskins Hudson, Graduate U. S. Naval Academy, LL.B., *Lecturer in Law.*

James Oliver Murdock, Ph.B., LL.B., *Lecturer in Law.*

Frederick Charles O'Connell, LL.M., *Associate in Law and Clerk of the Moot Court.*

\* On sabbatical leave first semester 1913-14.

## MOOT COURT OF APPEALS

Leon Tobriner, LL.B., *Chief Justice.*Brainard Warner Parker, LL.B., *Associate Justice.*George Francis Williams, LL.M., *Associate Justice.*

## COMMITTEES\*

## THE DEAN'S COUNCIL†

Carville Dickinson Benson, jr.

William Armstrong Hunter

Charles Sager Collier

Walter Lewis Moll

James Forrester Davison

Saul Chesterfield Oppenheim

William Thomas Fryer

Hector Galloway Spaulding

## COMMITTEE ON LIBRARY

Saul Chesterfield Oppenheim, *Chairman*

Charles Sager Collier

Walter Lewis Moll

The Law Librarian

## COMMITTEE ON REINSTATEMENT

James Forrester Davison, *Chairman*

Charles Sager Collier

Walter Lewis Moll

## COMMITTEE ON REGISTRATION

William Cabell Van Vleck, *Chairman*

William Thomas Fryer

William Armstrong Hunter

Saul Chesterfield Oppenheim

## ADVISER TO PRELEGAL STUDENTS

Carville Dickinson Benson, jr.

## GENERAL INFORMATION

## INTRODUCTORY

The George Washington University Law School, established in 1864, discontinued somewhat later, and reorganized in 1865, is the oldest in the District of Columbia. The course of instruction for the degree of

\* The President of the University and the Dean of the Law School are ex-officio members of all committees.  
† Elected by the Faculty.



Bachelor of Laws, originally requiring two years, was increased in 1898 to three years. A course leading to the degree of Master of Laws was added in 1877. In 1900 the School took part in the organization of the Association of American Law Schools and has been a member of the Association since that time. In 1911 the School became coeducational. In 1924 the late afternoon course for students with limited schedules was increased to four years. On September 1, 1925, the entrance requirements were increased to two years of college work. The School is approved by the Council of Legal Education of the American Bar Association. Since September 1, 1925, it has occupied a new building, designed and constructed for its use. This building has been named Stockton Hall in honor of the late Rear Admiral Charles H. Stockton, President of the University from 1910 to 1918. The building contains nine classrooms, library space with a maximum capacity of 40,000 volumes, and ten offices for professors.

#### THE LIBRARY

The Law School Library contains the decisions of the highest courts of all the States, the Reports of the United States Supreme Court and other Federal courts, the English Reprints and English Law Reports, the United States Statutes, the statutes of all of the States, the English statutes, the principal English and American digests, legal encyclopedias and collections of annotated cases, and the leading textbooks and legal periodicals.

The library is open from 9 a.m. to 11 p.m. on week days and from 2 to 6 p.m. on Sundays.

#### THE LAW REVIEW

The *George Washington Law Review*, published quarterly by the University, is edited by the Faculty and students of the Law School. It is devoted exclusively to the field of governmental and Federal public law. The location of the University in the Nation's Capital, where the primary sources of Federal public law may be observed in operation, affords a unique opportunity for specialization in this field. Each issue includes leading articles, student editorials, notes on recent cases, and book reviews. Among the subjects included in this field are administrative law, admiralty, constitutional law, federal trade commission, international law, interstate commerce, immigration, patents, copyrights, trade marks, taxation, trade regulation, tariff commission, radio commission, and veteran's administration.

The editorial work of the *Review* is in charge of a Faculty editor-in-chief, a Faculty board of associate editors, a board of departmental advisory editors, and a board of student editors. The thirty-five student editors are chosen each year from those students who have completed forty semester-hours or more with an average of B or better. Membership

on the student editorial board is one of the highest honors as well as one of the most valuable experiences which may be attained by the law student.

#### ADMISSION

For a statement of the general regulations and procedure for admission to the University, see pages 48-52.

Applications for admission and certificates of prelegal study should be filed with the Director of Admissions not later than two weeks before the registration period. Applications for admission with advanced standing should be filed with the Dean of the Law School not later than ten days before the registration period.

#### FOR THE BACHELOR OF LAWS DEGREE

Candidates for this degree must have completed before admission fifteen units of approved secondary-school work, and at least two years—sixty semester-hour credits—of approved college work. The completion of this work must be evidenced by proper certificates. In no case will a student be admitted with a condition in any part of the entrance requirement. An application for admission may be rejected on the ground of unsatisfactory scholarship in prelegal studies.

The college work required for admission may be completed in the Junior College of The George Washington University. Applicants for such college work should communicate with the Director of Admissions of the University.

#### ADVANCED STANDING

Students from approved law schools may receive not more than two years' credit toward the degree of Bachelor of Laws for work done in such schools. Applicants for admission with advanced standing must file certified transcripts of record showing high-school, college, and law credits. The right is reserved to refuse such credit, in whole or in part, or to allow it conditionally or after examination, and credit given may be withdrawn for subsequent poor work. No student will be admitted who has been in attendance at another law school and is ineligible, because of poor scholarship, to return to that school.

Students intending to attend summer school sessions at other law schools and desiring to use credits obtained at such schools in their course for the degree of Bachelor of Laws at this Law School, must first have the courses they wish to take approved by the Dean. In no event will credits be recognized in excess of those which might be obtained in a similar period in this School.

#### FOR THE MASTER OF LAWS DEGREE

Candidates for this degree must have completed at the time of their admission not less than two years of work in an approved college, must

have received the degree of Bachelor of Laws or an equivalent degree from an accredited law school, and must have attained in the course for the law degree an average grade equivalent to the grade of *B* in this Law School or must have been admitted by special action of the Dean's Council.

#### UNCLASSIFIED STUDENTS

Persons eligible for admission to regular standing may, in the discretion of the Dean, be admitted as unclassified students, to courses aggregating not more than four hours a week.

#### UNIVERSITY STUDENTS IN LAW

A limited number of persons who cannot qualify as candidates for a degree in Law, but who are over twenty-five years of age and because of their maturity, training, and experience seem qualified to pursue the study of Law, may be admitted to the Division of University and Extension Students as "university" students. Candidates for admission as university students in Law must file written applications, setting forth their qualifications in detail, and letters and certificates to prove the facts stated therein as to their education and experience. Work done by such university students will not be counted toward a degree.

#### REGISTRATION

Before attending classes each student must present himself in person for registration. No student will be registered in the Law School until proper credentials have been filed and approved by the proper officers of the University (see "Admission", above).

Only with the approval of the Dean's Council may a student be permitted to register in the second semester of a year subject before he has completed the attendance in the first semester of that subject.

In all cases where students are permitted to register in one semester of a year subject, they must register for the other semester of that subject not later than one calendar year from the time the attendance in the first semester was completed.

Registration is permitted at the beginning of either semester. Students beginning the study of Law in the second semester, however, may pursue only a limited schedule. If such students complete the course in Contracts and Criminal Law in the second semester and Personal Property and Torts in the following summer session, they may, during the following academic year, take the course of study recommended for second-year late-afternoon students.

Qualified students who are entitled to advanced standing on records from other approved law schools or who have completed courses at this Law School during former periods of attendance, may register at the



beginning of the second semester for subjects which commence at that time, but not for year subjects.

Registration days for the academic year 1933-34 will be Monday and Tuesday, September 18 and 19, 1933, and Wednesday and Thursday, January 31 and February 1, 1934. Except where special permission is given, students must register on the regular registration days. A late-registration fee of \$5 will be charged each student who is permitted to register after the regular registration days. No registration may be made for a semester subject after the first two weeks of a semester, or for a year subject after the first four weeks of the year.

Registration may be changed only with the permission of the Dean. A fee of \$2 will be charged for each such change.

For further information regarding registration, see pages 53-54.

#### FEES AND FINANCIAL REGULATIONS

For a statement of fees and financial regulations, see pages 55-59.

#### SCHOLARSHIPS, PRIZES, LOAN FUNDS

Scholarships are administered by the University Committee on Student Loans and Scholarships. Applications should be made to the Registrar of the University in accordance with instructions stated on page 60.

Through the generosity of friends of the University a number of loan funds are available to students in the Law School. Among them is the Henry Strong-William A. Maury Scholarship Loan Fund, established by the Henry Strong Educational Foundation in memory of Henry Strong and William A. Maury. Application for loans should be made to the Registrar of the University.

The following prizes are awarded annually in the Law School: Ellsworth Prize; Samuel Herrick Prize; John Bell Lerner Prize; and the Ordonaux Prizes. For particulars regarding prizes, see pages 63-67.

#### ORDER OF THE COIF

The Order of the Coif is a national honor society with chapters in thirty-two law schools, the purpose of which is "to foster a spirit of careful study and to mark in a fitting manner those who have attained a high grade of scholarship." The George Washington University Chapter was established in 1926. Students are elected each year from the highest ranking 10 per cent of the graduating class of the Law School.

#### GENERAL REGULATIONS

Students in the Law School are subject to, and are expected to familiarize themselves with, the general University regulations stated on pages 48-50 and 69-74.

#### AMOUNT OF WORK

A student who takes a majority of his courses in the full-time section, from 9.10 a.m. to 1 p.m., may, with the permission of the Dean, take work not exceeding fifteen hours a week. For such students the minimum period of attendance is three academic years.

A student who takes a majority of his courses in the afternoon sections or in classes held before 9 a.m., may not register for more than ten hours a week. For such students the minimum period of attendance is four academic years.

The amount of work carried by any student may be restricted when, in the judgment of the Dean, the best interests of the student require it.

#### ATTENDANCE

No student will be allowed credit in any subject unless he has been regularly registered and in regular attendance and has done all the work required in the course in that subject.

Absences of 10 per cent or less of the class hours in any given subject do not affect the student's attendance credit. Absences in excess of 25 per cent will make him ineligible for examination or credit in that subject. Absences exceeding 10 but not exceeding 25 per cent in each subject will be totaled from all subjects taken during the academic year, and for each fifteen hours of excess absences thus shown, the year's credit obtained by the student shall be reduced by one semester-hour. Lateness in registration shall count as absence. Credit for attendance shall begin with the date of approval of registration by the Comptroller's Office.

#### EFFECT OF NONRESIDENCE

Candidates absent from residence for more than two successive semesters may reenter and continue their work only under the rules and regulations in force at the time of their return. The Dean's Council, however, may permit such students to continue their work under the entrance requirements in force at the time they were admitted to the School.

#### GRADES

The grade of a student in each subject is indicated by the letters *P* (pass), *F* (below 55), failed. The meaning of these grades is as follows:

*P*, pass, means that the work has been successfully completed and full credit given for the subject.

*F*, failed, means that the work in the subject has been a failure and that no credit will be given. To obtain credit the student must repeat the subject; but a student who, in the work of the year, has received a grade of *F* in one subject only and obtained a general average of *C*, may take the next regular examination in that subject, and if on such reexamination

he attains the grade of *C* or better, he will be given a grade of *D* (60) in the subject.

At the end of each academic year each student is given an average numerical grade for his work for the year. These numerical grades rank as follows: *A* (85-100), excellent; *B* (75-84), very good; *C* (65-74), good; *D* (60-64), poor; *U* (below 60), unsatisfactory.

#### EXAMINATIONS

Written examinations are held at the close of the first semester in subjects which are then completed and at the close of the second semester in all other subjects. All students are required to take the regular examinations in the subjects pursued, unless excused by the Dean. A student who, with the consent of the Dean, does not take the final examination in a subject with the class in which he is enrolled, may take the next regular examination given in the subject.

No student shall be given an examination in, nor permitted to receive credit in, less than an entire subject. In any case where a student is permitted to register for one semester only of a year subject, he shall not take the examination in that subject until the other semester has been completed. If no regular examination in that subject is scheduled at the time the other semester is completed, then the student shall not be given a special examination but shall be required to take the next regular examination.

No special examinations will be given; except, that upon written application to the Dean's Council, showing sufficient cause, a candidate for a degree at a convocation before the next regular examination, if he would be entitled to take a postponed examination, may, in the discretion of the Dean's Council, be given a special examination not less than sixty days after the one which he failed to take.

#### CLASSIFICATION OF STUDENTS

Students are divided into classes on the completion of semester-hours of credit as follows: first year, to twenty-seven; second year, twenty-eight to fifty-five; third year, fifty-six or more.

#### COURSES OF INSTRUCTION

The courses of instruction in Law are listed on pages 249-53.

#### THE DEGREES

Upon the satisfactory completion of the requirements of the Law School, the degree of Bachelor of Laws or Master of Laws is conferred.



## REQUIREMENTS FOR THE BACHELOR OF LAWS DEGREE

To be recommended for a degree a student must satisfy the admission, residence, and scholarship requirements and must complete the prescribed number of credits and required subjects. *Particular attention is called to the statement of graduation requirements on pages 71-73.*

## RESIDENCE

The residence requirement for this degree is three academic years for full-time students or four academic years for students with limited schedules. A year's attendance in the late afternoon classes for students with limited schedules is counted as residence for three fourths of a year. In the case of students admitted with advanced standing, at least one full year of this residence requirement must be spent in The George Washington University.

A student who at the end of any regular period of residence—the first semester, the second semester, or the summer session—has completed subjects which equal in semester-hours the total number of semester-hours required for the degree for which he is a candidate, but has failed to complete the full residence requirements for that degree, must be in residence during additional periods sufficient to satisfy completely the residence requirements. In all such cases the student must be in residence during the entire period and must satisfy the attendance requirements of, and pass the examination in, at least one subject.

## CURRICULUM REQUIREMENTS

The curriculum leading to the degree of Bachelor of Laws is set forth under the first, second, and third years of the "Plan of Study", below. The successful completion of the courses there listed is required for the degree. The credit requirement is a minimum of eighty semester-hours.

## COMBINED ARTS AND LAW CURRICULUM

The University will confer the degree of Bachelor of Arts upon the completion of three years of college work and the first year in the Law School. In order to be certified to the authorities of Columbian College as having satisfactorily completed one year of law work, the student must have completed twenty-eight semester-hours in the Law School, with an average of 65 per cent or better (see the Columbian College announcement, pages 100-1). The Bachelor of Laws degree will be conferred upon the completion of the remainder of the work for that degree.

## COMBINED ENGINEERING AND LAW CURRICULUM

The University will confer the degree of Bachelor of Science in Engineering upon the completion of the first three years of the curriculum

for that degree in the School of Engineering and the first year in the Law School (see the School of Engineering announcement, page 151). The Bachelor of Laws degree will be conferred upon the completion of the remainder of the work for that degree.

#### SCHOLARSHIP

The eighty semester-hours of work required for the degree must be completed with an average grade of at least *C*.

Unless a student in each academic year receives a grade above *F* in at least three fourths of the semester-hours for which he is registered and obtains a numerical average grade of not less than 60, he will be denied registration in the future; but upon written application to the Committee on Reinstatement, showing sufficient cause, and after a personal hearing, if he so desires, he may be reinstated on such conditions as the committee may impose.

#### HONORS

The degree of Bachelor of Laws "with distinction" will be awarded students who obtain an average grade of *A*.

#### REQUIREMENTS FOR THE MASTER OF LAWS DEGREE

Candidates for the degree of Master of Laws must complete twenty semester-hours of work in subjects not counted toward the degree of Bachelor of Laws.

This degree will not be conferred until one academic year after the candidate receives the degree of Bachelor of Laws. All requirements must be completed in not exceeding two years after registration for the work for the degree.

#### SCHOLARSHIP

Courses taken for the Master's degree must be completed with an average grade of not less than *B*.

#### REQUIRED SUBJECTS

Trusts, Conflict of Laws, and Constitutional Law must be included in the course for the degree of Master of Laws if not previously taken. No first-year subject and no second-year required subject may be counted toward this degree.

#### PLAN OF STUDY

The subject matter is so related in the curriculum as to give an understanding of the relations between subjects. For this reason the subjects must be taken in the order provided for in the plan of instruction.

A student who has not completed all the first-year subjects may be permitted to register for a limited number of second-year subjects for

which he may be qualified. In no case, however, will this be permitted unless the student's program for the year includes the uncompleted, required, first-year subjects.

In no case will a student who is a candidate for a degree in Law be permitted to take any subjects listed as third-year subjects unless he has completed all the required subjects of the first year and at least three required subjects of the second year.

Qualified third-year students may elect a limited number of graduate subjects and count them toward the degree of Bachelor of Laws.

Candidates for the degree of Master of Laws may elect and count toward that degree third-year subjects not already counted toward the degree of Bachelor of Laws.

First Year	Sem. hrs.	Third Year	Sem. hrs.
Civil Procedure.....	4	Constitutional Law.....	4
Contracts.....	7	Corporations.....	4
Criminal Law and Procedure.....	3	Moot Court or Patent Moot Court.....	4
Personal Property.....	4	Electives*.....	12
Real Property I.....	4		
Torts.....	6	Total.....	24
Total.....	28		
Second Year		Master of Laws	
Bills and Notes.....	4	Administrative Law.....	2
Equity II.....	4	History of Law.....	4
Evidence.....	4	International Law.....	4
Real Property II.....	4	Interstate Commerce Law.....	2
Electives*.....	12	Taxation.....	4
Total.....	28	Trade Regulation.....	4
		Total.....	20

For catalogues, application blanks, and further information, address the Dean of the Law School, The George Washington University, Stockton Hall, Washington, D. C.

\* Courses from which electives may be selected are as follows: for the second year, Agency (4), Domestic Relations (2), Insurance (2), Quasi-contracts (2), Sales (4); for the third year, Admiralty (2), Bankruptcy (2), Conflict of Laws (4), Equity III (2), Federal Procedure (2), Labor Law (2), Mortgages (2), Municipal Corporations (2), Organization of Corporations (2), Partnership (2), Patent Law (4), Public Utilities (2), Real Property III (2), Suretyship (2), Torts (4). Figures in parentheses indicate the number of semester-hours of credit.





# THE SCHOOL OF ENGINEERING

## THE FACULTY

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University.*  
John Raymond Lapham, M.S., *Dean of the School of Engineering.*

## STAFF OF INSTRUCTION

John Raymond Lapham, M.S., *Professor of Civil Engineering.*  
Frank Artemas Hitchcock, M.S., C.E., *Professor of Civil Engineering.*  
Colin Mackenzie Mackall, Ph.D., *Professor of Chemistry.*  
Edward Henry Sehrt, Ph.D., *Professor of German.*  
\*Walter Lynn Cheney, Ph.D., *Professor of Physics.*  
Norman Bruce Ames, B.S., E.E., LL.B., *Professor of Electrical Engineering.*  
Arthur Frederick Johnson, M.E., *Professor of Mechanical Engineering.*  
James Henry Taylor, Ph.D., *Professor of Mathematics.*  
Harold Griffith Sutton, M.S., *Associate Professor of Finance.*  
Merle Irving Protzman, A.M., *Associate Professor of Romance Languages.*  
Benjamin Carpenter Cruickshanks, B.S. in M.E., *Associate Professor of Mechanical Engineering.*  
Douglas Bement, A.M., LL.B., *Assistant Professor of English.*  
Alfred Ennis, M.S. in E.E., *Assistant Professor of Electrical Engineering.*  
George Albert Chadwick, B.S., *Lecturer on Mechanics.*  
†Walter Bartow Lawrence, B.S. in M.E., *Lecturer in Mechanical Engineering.*  
Chester Allen Hogentogler, C.E., *Lecturer on Highway Engineering.*  
Chilton Austin Wright, C.E., M.C.E., Ph.D., *Lecturer on Hydraulics.*  
Max Allen Lett, M.S. in M.E., *Instructor in Mechanical Engineering.*  
Charles Edward Cook, B.S. in C.E., *Instructor in Civil Engineering.*  
Harold Harrison Dutton, B.S. in C.E., *Associate in Civil Engineering.*  
Joseph Carl Oleinik, M.S., *Associate in Civil Engineering.*  
James Augustin St. Omer Roy, B.S. in E.E., *Associate in Mechanical Engineering.*  
Louis Leon Ludlow, jr., B.S. in M.E., *Associate in Mechanical Engineering.*

\* On sabbatical leave 1933-34  
† On leave 1933-34.

## THE DEAN'S COUNCIL\*

1934

Frank Artemas Hitchcock

Arthur Frederick Johnson

1935

Norman Bruce Ames

Colin Mackenzie Mackall

1936

Benjamin Carpenter Cruickshanks

James Henry Taylor

## GENERAL INFORMATION

## INTRODUCTORY

The School of Engineering was organized in 1884 under the name of the Corcoran Scientific School.

## ADMISSION

For a statement of the regulations and procedure for admission, see pages 48-52.

## REGISTRATION

For information and regulations regarding registration, see pages 53-54.

Before registration, schedules of new students must be approved by the Dean, and schedules of other students must be approved by the executive officer of the major department.

## FEES AND FINANCIAL REGULATIONS

For a statement of fees and financial regulations, see pages 55-59.

## SCHOLARSHIPS, PRIZES, LOAN FUNDS

The following scholarships may be assigned in the School of Engineering: Henry Harding Carter Scholarship; Citizens' Military Training Camps Scholarship.

For particulars regarding scholarships, prizes, and loan funds, see pages 60-68.

## GENERAL REGULATIONS

Students in the School of Engineering are subject to, and are expected to familiarize themselves with, the general University regulations stated on pages 48-59 and 69-74.

## AMOUNT OF WORK

The normal program of studies for full-time students is set forth below under "Curriculum Requirements". Students with limited schedules

\*Elected by the Faculty. The President of the University and the Dean of the School of Engineering are ex-officio members of the committee.



are allowed not more than nine periods a week except by permission of the Dean's Council.

#### CLASSIFICATION OF STUDENTS

Students are classified according to the number of semester-hours of work completed, as follows: *freshman*, to 30; *sophomore*, 30 to 61; *junior*, 62 to 95; *senior*, 96 to 124.

#### COURSES OF INSTRUCTION

The courses of instruction are listed in alphabetical order beginning on page 201.

### THE BACHELOR OF SCIENCE DEGREES

Upon the satisfactory completion of the undergraduate requirements of the School of Engineering, the degree of Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, Bachelor of Science in Mechanical Engineering, or Bachelor of Science in Engineering is conferred.

#### REQUIREMENTS FOR THE DEGREES

To be recommended for a degree a student must satisfy the admission, residence, scholarship, and curriculum requirements. *Particular attention is called to the statement of graduation requirements on pages 71-73.*

#### SCHOLARSHIP

The system of grading and of computing scholarship is described in detail on pages 70-71.

In order to graduate a student must have a quality-point index of at least 2.00.

Delinquency in scholarship will render the student liable to be placed on probation or suspended by the Dean's Council. Readmission will be subject to approval by the Dean's Council.

#### PHYSICAL EDUCATION

The Physical Education requirement consists of the prescribed assignments (see the announcement of Physical Education courses, pages 279-85) to be taken in the freshman and sophomore years by all students.

## CURRICULUM REQUIREMENTS

## BACHELOR OF SCIENCE IN CIVIL ENGINEERING

## Freshman Year

COURSE	SEMESTER-HOURS		
	1st sem.	2d sem.	Total
Economics or foreign language	3	3	
English 1-2	3	3	
Mathematics 12X and 19X	3	3	
Mechanical Engineering 3 and 4	2	2	
Physics 13 and 12	3	3	
Physical Education	1	1	
	15	15	30

## Sophomore Year

Chemistry 2X and 21X	4	4	
Civil Engineering 25-26	2	2	
Civil Engineering 1 and 102	3	3	
Civil Engineering 118	0	2	
Mathematics 20X	3	0	
Physics 14	0	2	
Physical Education	1	1	
Electives	2	2	
	15	6	31

## Junior Year

Civil Engineering 14	0	2	
Civil Engineering 41 and 42	3	3	
Civil Engineering 71-72	3	3	
Civil Engineering 131 and 132	5	3	
Civil Engineering 133-34	2	2	
Electrical Engineering 9-10	3	3	
	16	16	32

## The School of Engineering

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### BACHELOR OF SCIENCE IN CIVIL ENGINEERING—continued

#### Senior Year

COURSES	SEMESTER-HOURS		
	1st sem.	2d sem.	Total
Civil Engineering 61 .....	3	0	
Civil Engineering 145-46 .....	3	3	
Civil Engineering 147-48 .....	2	2	
Civil Engineering 149-50 .....	3	3	
Civil Engineering 181-82 .....	3	3	
Political Science 127 .....	3	0	
Electives .....	0	3	
	17	14	31
Total .....			124

### BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

#### Freshman Year

Economics or foreign language .....	3	3	
English 1-2 .....	3	3	
Mathematics 12x and 19x .....	3	3	
Mechanical Engineering 3 and 4 .....	2	2	
Physics 13 and 12 .....	3	3	
Physical Education .....	1	1	
	15	15	30

#### Sophomore Year

Chemistry 2x and 21x .....	4	4	
Civil Engineering 25-26 .....	2	2	
Electrical Engineering 9-10 .....	3	3	
Mathematics 20x .....	3	0	
Mechanical Engineering 13-14 .....	2	2	
Physics 14 .....	0	2	
Public Speaking 1x .....	0	3	
Physical Education .....	1	1	
	15	17	32



## BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING—continued

## Junior Year

Courses	SEMESTER-HOURS		
	1st sem.	2d sem.	Total
Civil Engineering 131 and 132.....	3	3	
Electrical Engineering 17-18.....	2	2	
Electrical Engineering 121-22.....	3	3	
Mechanical Engineering 8.....	0	2	
Mechanical Engineering 111-12.....	3	3	
Political Science 127.....	3	0	
Electives.....	0	2	
	16	15	31

## Senior Year

Civil Engineering 1 and 14.....	3	2	
Civil Engineering 133-34.....	2	2	
Electrical Engineering 123 and 140.....	3	3	
Electrical Engineering 125-26.....	2	2	
Electrical Engineering 133-34.....	2	2	
Electrical Engineering 136.....	0	2	
Electrical Engineering 137.....	2	0	
Mechanical Engineering 115.....	2	0	
Electives.....	0	2	
	16	15	31
Total.....			124

## BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

## Freshman Year

Economics 1-2 or foreign language.....	3	3	
English 1-2.....	3	3	
Mathematics 12X and 19X.....	3	3	
Mechanical Engineering 3 and 4.....	2	2	
Physics 13 and 12.....	3	3	
Physical Education.....	1	1	
	15	15	30

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING—continued

Sophomore Year

COURSES	SEMESTER-HOURS		
	1st sem.	2d sem.	Total
Chemistry 2X and 21X.....	4	4	
Civil Engineering 1.....	3	0	
Civil Engineering 25-26.....	2	2	
Mathematics 20X.....	3	0	
Mechanical Engineering 7-8.....	2	2	
Mechanical Engineering 13-14.....	2	2	
Physics 14.....	0	2	
Physical Education.....	1	1	
Elective.....	0	3	
	17	16	33

Junior Year

Civil Engineering 14.....	0	2	
Civil Engineering 41.....	3	0	
Civil Engineering 131 and 132.....	5	3	
Civil Engineering 133-34.....	2	2	
Electrical Engineering 9-10.....	3	3	
Mechanical Engineering 111-12.....	3	3	
Mechanical Engineering 126.....	0	2	
	16	15	31

Senior Year

Electrical Engineering 13-14.....	2	2	
Mechanical Engineering 115-16.....	2	2	
Mechanical Engineering 127-28.....	2	2	
Mechanical Engineering 129-30.....	3	3	
Mechanical Engineering 131 and 138.....	2	2	
Mechanical Engineering 133.....	2	0	
Political Science 127.....	3	0	
Electives.....	0	3	
	16	14	30
Total.....			124

## BACHELOR OF SCIENCE IN ENGINEERING

## Freshman Year

COURSES	SEMESTER-HOURS		
	1st sem.	2d sem.	Total
English 1-2.....	3	3	
Mathematics 12X and 19X.....	3	3	
Mechanical Engineering 3 and 4.....	2	2	
Physics 13 and 12.....	3	3	
Physical Education.....	1	1	
Electives*.....	3	3	
	15	15	30

## Sophomore Year

Chemistry 2X and 21X.....	4	4	
Civil Engineering 25-26.....	2	2	
Geology 21-22.....	3	3	
Mathematics 20X.....	3	0	
Physics 14.....	0	2	
Physical Education.....	1	1	
Electives*.....	4	5	
	17	17	34

## Junior Year

Civil Engineering 14.....	0	2	
Civil Engineering 131 and 132.....	3	3	
Civil Engineering 133-34.....	2	2	
Electrical Engineering 9-10.....	3	3	
Mechanical Engineering 111-12.....	3	3	
Electives*.....	3	3	
	16	16	32

## Senior Year

Electives.....			28
Total.....			124

\* Electives in the freshman, sophomore, and junior years should be taken from the following list: Economics, Mechanism, Surveying, Structures, Physics, Machine Drawing, Astronomy, Electrical Laboratory, Mechanical Laboratory, foreign language, Mathematics, Geology, Chemistry.



No student whose quality-point index is below 2.00 will be admitted to the senior year of the foregoing curriculum leading to the degree of Bachelor of Science in Engineering. The purpose of the senior year of this curriculum is to allow students who have demonstrated their ability to do better than passing work, to center their attention upon a group of subjects in which they have special interest. The student's choice of electives for the entire twenty-eight hours must be submitted to the Dean's Council for approval before the beginning of the senior year. Senior schedules must be approved by the department concerned and shall be subject to such requirements as to preparation and grades as the department may prescribe. This work must be taken in The George Washington University.

#### COMBINED ENGINEERING AND LAW CURRICULUM

The first year of the regular curriculum for the degree of Bachelor of Laws may be accepted as the fourth year of the curriculum leading to the degree of Bachelor of Science in Engineering. This makes it possible for a student to obtain in six years the degree of Bachelor of Science in Engineering and the degree of Bachelor of Laws. This combined curriculum meets the needs of a student who plans to enter the field of Patent Law.

### THE PROFESSIONAL DEGREES

Professional degrees of Civil Engineer, Electrical Engineer, or Mechanical Engineer may be conferred upon graduates of the School of Engineering who have demonstrated their professional ability.

#### REQUIREMENTS FOR THE DEGREES

1. Application may not be made sooner than three years after graduation nor unless the candidate has had responsible charge of engineering work.
2. A detailed statement of the candidate's experience, references, the degree sought, and the title of the thesis must be filed with the Dean eight months before Commencement.
3. If his application is accepted, the candidate must prepare his thesis as required by the executive officer of the department concerned.
4. Two typewritten copies of the thesis must be presented to the Dean not later than the date announced in the University calendar. Requirements regarding the form of the thesis are stated on page 73.



## THE SCHOOL OF PHARMACY

### THE FACULTY

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University.*  
William Paul Briggs, M.S., *Dean of the School of Pharmacy.*

### STAFF OF INSTRUCTION

Paul Bartach, Ph.D., *Professor of Zoology.*  
Colin Mackenzie Mackall, Ph.D., *Professor of Chemistry.*  
William Paul Briggs, M.S., *Professor of Pharmacy.*  
Louis Francis Bradley, Ph.D., *Professorial Lecturer on Professional Pharmacy.*  
Benjamin Douglass Van Evera, M.S., *Associate Professor of Chemistry.*  
Douglas Bement, A.M., LL.B., *Assistant Professor of English.*  
Paul William Bowman, Ph.D., *Assistant Professor of Botany.*  
Raymond John Seeger, Ph.D., *Assistant Professor of Physics.*  
John Harold Hanks, Ph.D., *Assistant Professor of Bacteriology.*  
Chester Elwood Leese, Ph.D., *Assistant Professor of Physiology.*  
Eugene Christian Brokmeyer, *Lecturer on Pharmaceutical Jurisprudence.*  
Samuel Louis Hilton, Ph.D., *Lecturer on Incompatibilities.*  
Augustus Carrier Taylor, *Lecturer on Pharmaceutical Ethics.*  
Waldemar Bruce Philip, Ph.D., LL.B., *Lecturer on Pharmaceutical Economics.*  
John William Lee, B.S. in Phar., *Instructor in Pharmaceutical Chemistry.*

### COMMITTEES\*

#### ADVISORY COMMITTEE

Louis Francis Bradley, <i>Chairman</i>	Samuel Louis Hilton
Howard Bradbury	Paul Pearson
Malcolm Graham Gibbs	Augustus Carrier Taylor
William P. Herbst	

#### COMMITTEE ON SCHOLARSHIP

Benjamin Douglass Van Evera, *Chairman:*  
Paul William Bowman

\* The President of the University and the Dean of the School of Pharmacy are ex-officio members of the committees.



## GENERAL INFORMATION

## INTRODUCTORY

In 1867 the foundation for the National College of Pharmacy was laid by the Apothecaries' Association of the District of Columbia. The College was opened in 1872 and continued until 1906, when it became affiliated with The George Washington University.

The School of Pharmacy is a member of the American Association of Colleges of Pharmacy.

Washington offers many opportunities for the study of Pharmacy. Not only are the facilities of Government laboratories and libraries open to students, but the School of Pharmacy is located only a few blocks from the American Institute of Pharmacy building, in which have been established a pharmaceutical museum and library, and research laboratories which have brought to Washington the outstanding men of the profession.

## ADMISSION

For a statement of the general regulations and procedure for admission to the University, see pages 48-52.

Candidates for admission to the School of Pharmacy must submit a Junior Certificate or its equivalent.

## REGISTRATION

For information and regulations regarding registration, see pages 53-54.

## FEES AND FINANCIAL REGULATIONS

For a statement of fees and financial regulations, see pages 55-59.

## SCHOLARSHIPS, PRIZES, LOAN FUNDS

For particulars regarding scholarships, prizes, and loan funds, see pages 60-68.

## GENERAL REGULATIONS

*Students in the School of Pharmacy are subject to, and are expected to familiarize themselves with, the general University regulations stated on pages 48-59 and 69-74.*

## AMOUNT OF WORK

Normal work for any year is that outlined under the head of "Curriculum Requirements", below. A student who wishes to take more than the normal amount of work may do so only with the permission of the Committee on Scholarship, who shall be guided in their decision by his scholar-

tic record and the extent to which he is employed. A student on probation shall be limited in the amount of work he may carry.

#### ATTENDANCE

Candidates for the degree must have attended at least 80 per cent of all required instruction and must be present at the time specified for the final examinations.

#### EXAMINATIONS

Examinations are held at the end of the course in each subject. Students who fail to appear at a regular examination will not be examined until the next regular examination except by special permission of the Scholarship Committee of the Faculty. For special examinations a fee of \$5 will be charged for each subject.

#### COURSES OF INSTRUCTION

The courses of instruction are listed in alphabetical order beginning on page 201.

#### THE DEGREE

Upon the satisfactory completion of the requirements of the School of Pharmacy, the degree of Bachelor of Science in Pharmacy is conferred.

#### REQUIREMENTS FOR THE DEGREE

To be recommended for a degree a student must satisfy the admission, residence, scholarship, and curriculum requirements. *Particular attention is called to the statement of graduation requirements on pages 71-73.*

Every candidate for the degree of Bachelor of Science in Pharmacy must be at least twenty-one years of age and of good character.

#### SCHOLARSHIP

The system of grading and of computing scholarship is described in detail on pages 70-71.

In order to graduate a student must have quality-point index of at least 2.00.

*Probation.*—Students must maintain a quality-point index of at least 2.00 or they are placed on probation. Students remain on probation as long as they fail to attain this index.

*Dismissal.*—Students having a quality-point index below 1.00 or who are placed on probation for a third semester, whether successive or after an interval, are suspended.

Students suspended for poor scholarship may apply for readmission after an interval of a calendar year. A student applying for readmission under this rule must submit evidence to the Dean of the School of Pharmacy that during this absence from the University he has so conducted himself as to indicate that he will profit by readmission. Students suspended twice for poor scholarship are not readmitted.

For the purpose of these rules, the Summer Sessions are considered a semester.

In the case of students with limited schedules, the foregoing scholarship rules are applied only when the student has undertaken fifteen semester-hours or more.

#### CURRICULUM REQUIREMENTS

The laboratory method of teaching is used. Recitation classes are held in connection with each course in order to provide systematic drill in the subjects. Students in Pharmacy have the advantage of obtaining instruction in any department of the University.

The curriculum requirements include at least 124 semester-hours of credit. The following curriculum leads to the degree of Bachelor of Science in Pharmacy.

#### Freshman and Sophomore Years

Courses	Did. hrs.	Lab. hrs.	Sem. hrs.	Clock hrs.
Courses in the Junior College (see page 90 and table facing pages 90-91).....	624	912	64	1536

#### Junior Year: First Semester

Pharmacy 101.....	32	96	4	128
Chemistry 121.....	16	144	4	160
Bacteriology 111.....	32	64	3	96
Pharmacy 107.....	32	.....	2	32
Elective*.....	32	.....	2	32
Total.....	144	304	15	448

\* Recommended courses from which electives may be selected are as follows: for the first semester, Chemistry 145 (4), Pharmacy 121 (2), Economics 1 (2); for the second semester, Chemistry 146 (1), Pharmacy 152 (2), Economics 2 (2), Chemistry 22 (4), Pharmacy 108 (1). Figures in parentheses indicate the number of semester-hours of credit.



## Junior Year: Second Semester

Courses	Did hrs	Lab hrs	Sem. hrs	Clock hrs
Pharmacy 102.....	32	96	4	128
Pharmacy 110.....	32	48	3	80
Physiology 116.....	32	64	3	96
Elective*.....	48	96	5	144
Total.....	144	304	15	448

## Senior Year: First Semester

Pharmacy 161.....	16		1	16
Pharmacy 163.....	32	48	3	80
Pharmacy 165.....	48		3	48
Elective†.....	64	192	8	256
Total.....	160	240	15	400

## Senior Year: Second Semester

Pharmacy 166.....	32	48	3	80
Pharmacy 174.....	32	96	4	128
Pharmacy 176.....	32		2	32
Pharmacy 178.....	32		2	32
Elective†.....	16	144	4	160
Total.....	144	288	15	432
Grand total.....	1216	2048	124	3264

\* Recommended courses from which electives may be selected are as follows: for the first semester, Chemistry 145 (2), Pharmacy 151 (2), Forensics 1 (3), for the second semester, Chemistry 147 (2), Pharmacy 150 (2), Forensics 2 (3), Chemistry 22 (2), Pharmacy 158 (1), Chemistry 122 (4). Electives to complete the number of semester-hours of course.

† Recommended courses from which electives may be selected are as follows: for the first semester, Chemistry (11) (1), Pharmacy 179 (2), Biochemistry 141 (4), Psychology 1 (3), Chemistry 145 (2), for the second semester, Chemistry 122 (4), Chemistry 141 (3), Pharmacy 172 (2), Biochemistry 142 (4), Psychology 2 (1), Pharmacy 14 (2), Pharmacy 150 (3), Pharmacy 164 (1), Pharmacy 190 (2), Chemistry 146 (2). Figures in parentheses indicate the number of semester-hours of course.

Elective courses other than those here recommended may be taken with the approval of the Dean.



## THE SCHOOL OF EDUCATION

### THE FACULTY

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University.*  
William Carl Ruediger, Ph.D., *Dean of the School of Education.*

### STAFF OF INSTRUCTION

Charles Sydney Smith, Ph.D., *Professor of Classical Languages.*  
William Carl Ruediger, Ph.D., *Professor of Education.*  
DeWitt Clinton Croissant, Ph.D., *Professor of English.*  
Thomas Benjamin Brown, Ph.D., *Professor of Physics.*  
Henry Grattan Doyle, A.M., *Professor of Romance Languages.*  
Robert Fiske Guggs, Ph.D., *Professor of Botany.*  
Colin Mackenzie Mackall, Ph.D., *Professor of Chemistry.*  
Edward Henry Sehrt, Ph.D., *Professor of German.*  
\*Fred August Moss, Ph.D., M.D., *Professor of Psychology.*  
William Cullen French, Ph.D., *Professor of Education.*  
Willard Hayes Yeager, A.M., *Deputy Professor of Public Speaking.*  
Dudley Wilson Willard, Ph.D., *Professor of Sociology.*  
James Ebenezer Pixlee, B.S., *Professor of Physical Education for Men.*  
William John Cooper, A.M., Ed.D., LL.D., Litt.D., Sc.D., Pd.D., *Professor of Education.*  
Frank Washington Ballou, Ph.D., *Professorial Lecturer in Education.*  
Julia Letheld Hahn, Ph.D., *Professorial Lecturer in Education.*  
J. Orin Powers, Ph.D., *Associate Professor of Education.*  
Harold Griffith Sutton, M.S., *Associate Professor of Finance.*  
Warren Reed West, Ph.D., *Associate Professor of Political Science.*  
Ruth Harriet Atwell, A.M., *Associate Professor of Physical Education for Women.*  
Frank Mark Weida, Ph.D., *Associate Professor of Mathematics.*  
Alva Curtis Wilgus, Ph.D., *Associate Professor of History.*  
Frances Kirkpatrick, A.M., *Associate Professor of Home Economics.*  
Mitchell Dreese, Ph.D., *Associate Professor of Education.*  
Christopher Browne Garnett, jr., Ph.D., *Assistant Professor of Philosophy.*  
Kathryn Mildred Towne, A.M., *Assistant Professor of Home Economics.*

\*On sabbatical leave next semester 1933-34



James Frederick Abel, Ph.D., *Lecturer in Education.*

Ruth Mary Aubeck, B.S., *Instructor in Physical Education for Women.*

Helen Bennett Lawrence, *Instructor in Physical Education for Women.*

Jean Elyle Sexton, A.B., *Instructor in Physical Education for Men.*

Agnes MacAulay Rodgers, M.S., *Instructor in Physical Education for Women.*

Leonard Patrick Walsh, A.B., *Instructor in Physical Education for Men.*

William Henry Myers, A.B., *Instructor in Physical Education for Men.*

Gladys Christine Haldeman, B.S., *Associate in Home Economics.*

Ruth Emma Coyner, A.M., *Associate in Education.*

#### COMMITTEES\*

##### THE DEAN'S COUNCIL†

1934

James Ebenezer Pixlee

Dudley Wilson Willard

1935

Mitchell Dreese

Frank Mark Weida

1936

William Cullen French

Willard Hayes Yeager

##### COMMITTEE ON ADMISSION AND ADVANCED STANDING

William Carl Ruediger, *Chairman*

Harold Griffith Sutton

Warren Reed West

##### COMMITTEE ON SCHOLARSHIP

William Cullen French, *Chairman*

Mitchell Dreese

Thomas Benjamin Brown

##### COMMITTEE ON DISCIPLINARY RELATIONS

Mitchell Dreese, *Chairman*

James Ebenezer Pixlee

Frances Kirkpatrick

\* The President of the University and the Dean of the School of Education are ex-officio members of all committees.

† Elected by the Faculty.

## GENERAL INFORMATION

### INTRODUCTORY

It is the purpose of the School of Education to prepare teachers, supervisors, and administrators for the higher ranges of educational service and to offer opportunities to teachers of experience to extend their training. The School embraces the Departments of Education, Physical Education, and Home Economics, and it is affiliated with all the other departments of the University in which the student is likely to elect work. Both graduate and undergraduate work is offered.

The schedule of courses is arranged to meet the convenience of both full-time and part-time students. By attending afternoon, Saturday, and summer classes, teachers in the schools of Washington and vicinity may complete all the requirements for a degree without giving up their positions.

### ADMISSION

For a statement of the general regulations and procedure for admission to the University, see pages 48-52.

### FOR THE BACHELOR'S DEGREES

Admission to the undergraduate division of the School is based on (a) the satisfactory completion of two years of approved college work, or (b) graduation from an approved two-year normal school. Students meeting these requirements are admitted as regular students. Others may be admitted to the Division of University and Extension Students on the presentation of evidence that they are qualified to pursue the work to advantage.

Students transferring from other colleges or from normal schools should request their high schools and their colleges or normal schools to transmit their credentials of work to the Director of Admissions at least one month before the beginning of the session that they wish to enter. All credentials must be in hand before the student may register. Credentials are official and acceptable only when transmitted directly from school to school, without passing through the hands of the student.

### FOR THE HIGHER DEGREES

To be admitted to graduate standing a candidate must hold a baccalaureate degree from an accredited school or college or must have completed a course of study that is judged by the Faculty to be the equivalent. Candidates holding degrees from unaccredited institutions, whose work is judged by the Faculty to be more than twelve semester-hours short of a standard baccalaureate degree, must register for a Bachelor's degree; others may remove their deficiencies while registered for the higher degree.

## REGISTRATION

For information and regulations regarding registration, see pages 53-54.

## FEES AND FINANCIAL REGULATIONS

For a statement of fees and financial regulations, see pages 55-59.

## SCHOLARSHIPS, PRIZES, LOAN FUNDS

The following scholarships may be assigned to undergraduate students in the School of Education: Maria M. Carter Scholarship; David Spencer Scholarship; John Withington Scholarship.

For particulars regarding scholarships, prizes, and loan funds, see pages 60-68.

## INDEPENDENT STUDY PLAN

A student of demonstrated capacity with special interest in a course may, upon the approval of his project by the instructor in charge and by the Dean, be permitted to undertake independent study under the personal direction of the instructor.

## GENERAL REGULATIONS

*Students in the School of Education are subject to, and are expected to familiarize themselves with, the general University regulations stated on pages 48-59 and 69-74.*

## AMOUNT OF WORK

A normal program of work for undergraduate students is sixteen or seventeen hours a week. Students with a quality-point index of 3.00 or higher may, with the Dean's permission, take nineteen hours. More than nineteen hours may not be taken except by special permission of the Scholarship Committee.

For employed students nine hours a week constitutes a normal program of work. Students with a quality-point index of 3.00 or higher for the preceding semester may be permitted by the Dean to take twelve or thirteen hours.

For graduate students twelve hours a week, exclusive of the thesis, constitutes a normal program of work. Employed students may not take more than nine hours a week.

## COURSES OF INSTRUCTION

The courses of instruction are listed in alphabetical order beginning on page 201.

## THE BACHELOR'S DEGREES

Upon satisfactory completion of the undergraduate requirements of the School of Education, the degree of Bachelor of Arts in Education.



Bachelor of Science in Home Economics, or Bachelor of Science in Physical Education is conferred.

### REQUIREMENTS FOR THE DEGREES

To be recommended for a degree a student must satisfy the admission, residence, scholarship, and curriculum requirements. *Particular attention is called to the statement of graduation requirements on pages 71-73.*

#### SCHOLARSHIP

The system of grading and of computing scholarship is described in detail on pages 70-71.

In order to graduate a student must have a quality-point index of at least 2.00.

*Probation.*—Students must maintain a quality-point index of at least 2.00 or they are placed on probation. Students remain on probation as long as they fail to attain this index.

*Dismissal.*—Students who fail to pass (i.e., receive a grade of E or F) in half or more of their work, based on a minimum of sixteen semester-hours, are suspended.

A student who has been suspended for poor scholarship may within ten days appeal his case to the Scholarship Committee through the Dean. If the case appears to be remediable and the student appears likely to improve in his scholarship thereafter, the committee may readmit him on probation. A student who has been denied readmission on probation may petition the Scholarship Committee through the Dean for readmission after the lapse of one semester. A student who has been suspended twice will not be readmitted.

#### CURRICULUM REQUIREMENTS

In any of the following curricula at least thirty semester-hours of work must consist of courses numbered above 100.

##### BACHELOR OF ARTS IN EDUCATION

Students admitted with two years of approved college work are granted the degree of Bachelor of Arts in Education upon the completion of sixty-six semester-hours of work. This work must include:

	Sem. hrs.
Educational Psychology.....	3
History and Principles of Education.....	3
Technique of Teaching.....	2
Elementary or Secondary Education.....	4
Special Methods.....	2
Observation and Practice Teaching.....	6
Electives in Education.....	7
Subject-matter group.....	24
Electives.....	15
Total.....	66

To the extent that courses in the foregoing list are offered for admission, the range of electives is increased, leaving room for the mastery of a minor teaching subject.

*Normal-School Graduates.*—On graduates from approved two-year normal schools the degree of Bachelor of Arts in Education is conferred upon the completion of seventy-two semester-hours of work, exclusive of six semester-hours of credit granted for successful teaching experience, but inclusive of twelve semester-hours in Education, a subject-matter group, and any unfinished junior-college requirements. The unfinished requirements should be determined in consultation with the Dean.

*Subject-Matter Group.*—Under the guidance of a member of the Faculty designated by the Dean, each student before graduation shall have completed a minimum of twenty-four semester-hours of work in one of the following groups: Biological Sciences; Classical Languages; English; Germanic Languages; Geology, Geography, and Astronomy; Graphic Art; Home Economics; Mathematics; Philosophy and Psychology; Physical Sciences; Romance Languages; Social Sciences. Relevant work completed in normal school or junior college may be counted in this group. Students preparing for elementary-school teaching or for supervision may, with the approval of their adviser, combine courses from two or more groups, in which case a total of thirty semester-hours is required.

#### BACHELOR OF SCIENCE IN HOME ECONOMICS

At the beginning of the junior year each student majoring in Home Economics must select one of the following groups. The minimum requirements for the major are twenty-four semester-hours in addition to Home Economics 1 and 21. All electives must be chosen with the advice of the Executive Officer.

##### I. General Home Economics

Junior Year		Senior Year	
	Sem. hrs.		Sem. hrs.
Home Economics 101.....	3	Home Economics 151.....	3
Home Economics 102.....	3	Home Economics 152.....	3
Home Economics 121.....	3	Home Economics 171.....	3
Home Economics 140.....	3	Home Economics 192.....	3
Economics.....	6	Education 105.....	3
Chemistry 41.....	4	Physiology 116.....	3
Biochemistry 54.....	4	Bacteriology 111.....	9
Electives.....	4	Electives.....	30
Total.....	30	Total.....	30

II. Food and Nutrition

Junior Year		Senior Year	
	Sem. hrs.		Sem. hrs.
Home Economics 101	3	Home Economics 151	3
Home Economics 102	3	Home Economics 152	3
Chemistry 41	4	Home Economics 180	3
Biochemistry 54	4	Home Economics 192	3
Physiology 116	3	Education 105	3
Economics	6	Sociology	3
Bacteriology 111	3	Electives	12
Electives	4		
Total	30	Total	30

III. Clothing and Textiles

Junior Year		Senior Year	
Home Economics 72	3	Home Economics 160	3
Home Economics 121	3	Home Economics 171	3
Home Economics 140	3	Home Economics 192	3
Graphic Art or elective	3	Education 105	3
Economics	6	Sociology	3
Electives	12	Electives	15
Total	30	Total	30

IV. Home-Economics Education

Junior Year		Senior Year	
Education 115	3	Education 105	3
Home Economics 101	3	Education 120	3
Home Economics 102	3	Education 130	3
Home Economics 121	3	Education 151 or 152	3
Home Economics 126	3	Home Economics 151	3
Home Economics 140	3	Home Economics 152	3
Chemistry 41	4	Home Economics 171	3
Biochemistry 54	4	Home Economics 192	3
Electives	7	Electives	9
Total	33	Total	33

BACHELOR OF SCIENCE IN PHYSICAL EDUCATION FOR MEN

Dual-Major Teacher's Course

Junior Year		Senior Year	
Education 115	3	Education 120	3
Education 116	3	Education 151 or 152	3
Elective Education	6	Elective Education	3
Physical Education 106	3	Physical Education 131 and 132	5
Elective Physical Education	8	Elective Physical Education	10
Electives	10	Electives	9
Total	33	Total	33



The minimum requirements for the degree are twenty-four semester-hours in Physical Education, eighteen semester-hours in Education, eighteen semester-hours in a subject-matter group, and six semester-hours of electives.

*Single-Major Teacher's Course*

Junior Year	Sem hrs	Senior Year	Sem hrs
Education 115.....	3	Education 129.....	3
Education 116.....	3	Education 151 or 152.....	3
Elective Education.....	5	Elective Education.....	3
Physical Education 105.....	3	Physical Education 128.....	3
Physical Education 106.....	3	Physical Education 131.....	2
Physical Education 108.....	3	Physical Education 132.....	6
Elective Physical Education.....	4	Elective Physical Education.....	10
Electives.....	9	Electives.....	
Total.....	33	Total.....	33

The minimum requirements for the degree are thirty semester-hours in Physical Education, eighteen semester-hours in Education, and eighteen semester-hours of electives.

## BACHELOR OF SCIENCE IN PHYSICAL EDUCATION FOR WOMEN

Junior Year	Sem hrs	Senior Year	Sem hrs
Education 115.....	3	Education 129-30.....	6
Education 116.....	3	Education 151 and 152.....	6
Physical Education 101-2.....	6	Physical Education 111-12.....	3
Physical Education 103-4.....	6	Physical Education 113.....	3
Physical Education 106.....	3	Physical Education 116.....	3
Physical Education 107.....	2	Physical Education 117.....	2
Physical Education 109-10.....	6	Physical Education 118.....	6
Public Speaking 1.....	3	Electives.....	
Total.....	32	Total.....	34

## THE HIGHER DEGREES

Upon the satisfactory completion of the graduate requirements of the School of Education, the degree of Master of Arts, Master of Arts in Home Economics or Doctor of Education is conferred.

## GENERAL INFORMATION

## GUIDANCE

The work for a higher degree is conducted under the guidance of a consultative committee appointed by the Dean. It is the duty of this

committee to outline and approve the student's schedule of work, to advise and direct the student in the preparation of his thesis, and to arrange his general examinations. The chairman of the committee is the student's adviser.

#### COURSES ACCEPTABLE

Fully qualified graduate courses are numbered 201 and above. Courses numbered 101-200 may be credited toward a higher degree when approved by the student's committee and after the completion of additional work in them has been certified by the instructors in charge. Courses numbered 1-100 may not be credited toward a higher degree but may in certain instances be required as a basis for advanced work.

#### TRANSFERRED WORK

Graduate work completed in other accredited institutions of learning may be credited toward a higher degree as follows: toward a Master's degree, six to twelve semester-hours; toward the degree of Doctor of Education, not to exceed two years.

Advanced courses completed in excess of the requirements for the baccalaureate degree in The George Washington University may be credited toward the Master's degree to the extent of twelve semester-hours, provided the work fits in with the student's plan of specialization and is approved in writing by the Dean before it is undertaken.

Transferred work completed more than three years prior to registration for the Master's degree at The George Washington University will be credited only if the candidate successfully passes an examination given by his committee on the subject matter of the work offered for credit.

#### REQUIREMENTS FOR THE MASTER OF ARTS DEGREE

##### RESIDENCE

A candidate must pass in resident study at this University at least two semesters, or one semester and one nine-week summer term, or three nine-week summer terms, or four six-week summer terms.

##### CLASS WORK

A student whose previous preparation in his chosen field has been adequate may complete his class requirements by a minimum of twenty-four semester-hours of work; others may be required to take as many as twelve semester-hours additional. The work may fall in one or two departments, but no less than six semester-hours taken in one department may be counted. At least six semester-hours of work must be chosen from courses numbered 201 or higher.

### THE THESIS

Every candidate must present a thesis in his major subject. The thesis counts as a six semester-hour course toward the degree and must be duly registered for (Education 291-92). The thesis subject must be approved in writing by the student's adviser and recorded in the Office of the Registrar by the date announced in the University calendar. The typewritten thesis in its final form must be presented to the Dean by the student not later than the date announced in the University calendar. Requirements regarding the form of the thesis are stated on page 73.

### FINAL EXAMINATION

In addition to the course examinations, the candidate must pass an examination on his thesis and major field of work before a committee of at least five members appointed by the Dean. This examination may be either oral or written, or both. The conclusion of this examination, signed by the members of the examining committee, is transmitted to the Dean by the chairman of the student's committee for official record.

If the thesis is submitted more than three years after the course requirements have been completed, a written examination covering the student's field of work will also be required.

### REQUIREMENTS FOR THE DOCTOR OF EDUCATION DEGREE

The requirements for the degree of Doctor of Education cannot be stated in semester-hours, but they represent in general three years of work beyond a standard Bachelor's degree. It is the function of these requirements to prepare students for advanced teaching, administrative, and supervisory positions, and to train them to investigate and report the problems that arise in the varied phases of Education. The work is given a practical instead of a theoretical bent and emphasizes the mastery and application of professional subject matter, both in the study requirements and in the dissertation. Special emphasis is placed on the candidate's success as a teacher, supervisor, administrator, or writer. He must file the names of three persons who are in position to speak with assurance concerning the candidate's capacity and achievement.

### ADMISSION TO CANDIDACY

To be admitted to candidacy for the degree of Doctor of Education the student must have satisfied the following requirements. Until these requirements have been satisfied the student will be classed as a Registrant for the degree.

1. He must have completed a year of graduate work equivalent to that required for the degree of Master of Arts in The George Washington University.



2. He must have secured in writing from his consultative committee a schedule of class work, reading, and investigation, and from the chairman of his committee the approval of the subject of his thesis. Copies of both will be placed on file in the office of the Dean and in the Office of the Registrar.

3. He must have passed an examination on such tools of investigation as have been set by his consultative committee. These tools may include statistical methods, historical criticism, one or more foreign languages, and any others that may be considered essential by his committee.

4. He must have passed a scholastic aptitude test. This test will ordinarily be taken on admission as a Registrant.

5. He must have passed a written examination on those subdivisions of the field of Education that have been previously designated by his committee. The results of this examination, together with the questions, will be placed in the student's file as a part of his record.

6. He must have passed an oral examination before his committee. The foregoing requirements must be satisfied by November 1 if the candidate expects to receive his degree the following June, and by May 1 if he expects to receive his degree the following February.

#### THE FINAL YEAR OF CANDIDACY

The final year of candidacy shall be spent at The George Washington University unless, on recommendation of the student's committee, permission is granted by the Dean's Council to spend it elsewhere. Such permission will not affect the requirement of taking the final examinations here.

#### THE DOCTORAL THESIS

Not later than the date specified in the University calendar the candidate shall present to the Dean of the School of Education two copies of his thesis, typewritten on official thesis paper, and also a typewritten summary of the thesis consisting of not more than 2,500 words. The Dean will transmit the thesis to the chairman of the candidate's committee. Requirements regarding the form of the thesis are stated on page 73.

The successful candidate is required, before receiving his degree, to pay a fee of \$50 to cover the expense of printing the summary of his thesis. He is urged to have his thesis printed in full.

#### FINAL EXAMINATION

At least three weeks before the degree is to be conferred the candidate must pass an oral examination on his thesis and related fields of work, conducted by his committee, supplemented by at least two members of the Faculty and two experts from outside the University. This examination is open to the public, and all are privileged to question the candidate. The chairman of the candidate's committee will preside at this examination.



# THE SCHOOL OF GOVERNMENT

## THE FACULTY

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University.*  
—, *Dean of the School of Government.*

### STAFF OF INSTRUCTION

- William Allen Wilbur, A.M., Litt.D., LL.D., *Professor of English.*  
DeWitt Clinton Croissant, Ph.D., *Professor of English.*  
Charles Edward Hill, Ph.D., *Professor of Political Science.*  
John Donaldson, Ph.D., *Professor of Political Economy.*  
George Morton Churchill, Ph.D., *Professor of History.*  
Samuel Flagg Bemis, Ph.D., *Professor of History.*  
Edward Henry Sehrt, Ph.D., *Professor of German.*  
Richard Norman Owens, Ph.D., C.P.A., *Professor of Accounting and Business Administration.*  
Willard Hayes Yeager, A.M., *Depew Professor of Public Speaking.*  
\*Fred August Moss, Ph.D., M.D., *Professor of Psychology.*  
Dudley Wilson Willard, Ph.D., *Professor of Sociology.*  
Elmer Louis Kayser, Ph.D., *Professor of History.*  
Cecil Knight Jones, B.Litt., *Professorial Lecturer on Spanish-American Literature.*  
Joseph Steinhauer Zucker, Ph.D., *Professorial Lecturer on Taxation.*  
Harold Griffith Sutton, M.S., *Associate Professor of Finance.*  
Merle Irving Protzman, A.M., *Associate Professor of Romance Languages.*  
Warren Reed West, Ph.D., *Associate Professor of Political Science.*  
†John Albert Tillema, Ph.D., LL.M., *Associate Professor of Political Science.*  
Alva Curtis Wilgus, Ph.D., *Associate Professor of History.*  
†Lowell Joseph Ragatz, Ph.D., *Associate Professor of History.*  
Daniel Houston Buchanan, Ph.D., Sc.D., *Associate Professor of Economics.*  
‡William Crane Johnstone, jr., Ph.D., *Assistant Professor of Political Science.*  
Ralph Dale Kennedy, Ph.D., *Assistant Professor of Economics.*

\* On sabbatical leave first semester 1933-34.  
† On sabbatical leave 1933-34.  
‡ On leave second semester 1933-34.



## GENERAL INFORMATION

## INTRODUCTORY

The George Washington University School of Jurisprudence and Diplomacy existed from 1898 to 1910, when it was discontinued as a separate school. The courses were given, however, in Columbian College until September 1928, when training in foreign service and governmental theory and administration was reestablished as a separate branch under the School of Government.

It is the purpose of the School to give the students an understanding of the responsibilities under the Constitution of the United States in the conduct of public office—domestic and foreign. This can be accomplished, not through any single course, but through a curriculum which ties together social, economic, political, historical, and psychological studies.

The courses in Domestic Government train in the theory of, and practice in, local, State, and national positions. The courses in Foreign Service train students for the many opportunities offered in the foreign fields to carry out the ideals for which America stands, not only in governmental work but in the much wider field of foreign trade as conducted by private enterprise in all parts of the world. This training fits the student especially to assist American citizens who have occasion to travel or to do business abroad, to understand their reciprocal rights and duties, and to protect them in these rights without infringing upon the rights of others, as well as to collect and report information concerning commercial conditions and opportunities abroad. The student thus gains an insight into international affairs from both the American and the foreign point of view, with a resultant broader understanding of economic and political problems.

## ADMISSION

For a statement of the general regulations and procedure for admission to the University, see pages 48-52.

Special students and auditors are referred to the Division of University and Extension Students.

## FOR THE BACHELOR'S DEGREE

Applicants for admission to the School of Government must present a certificate of Junior Standing based on the proper curriculum in Government in the Junior College, or its equivalent.

## FOR THE MASTER'S DEGREE

Applicants for admission to the School of Government having the intention of becoming candidates for the degree of Master of Arts must present a baccalaureate degree from an accredited institution, or evidence

of a course of study that is judged by the Faculty to be the equivalent, and a transcript of the studies previously pursued. Students from un-accredited institutions may be admitted at the discretion of the Dean, but such students are required to take such extra work above the minimum requirements as may be prescribed, and they will be registered in the Division of University and Extension Students until such work is completed.

The course of study pursued for the Bachelor's degree must be approved by the Dean as having provided the proper basic training to justify registration for the higher degree. The Dean may permit deficiencies to be made up concurrently with work for the degree. A student taking full work for any other degree, here or elsewhere, cannot be registered for a degree in the School of Government.

Registration for the degree does not constitute formal candidacy. The further requirements for formal candidacy are stated on page 179.

#### REGISTRATION

For information and regulations regarding registration, see pages 53-54.

Before registering, a candidate for a degree must secure the written approval of his choice of subjects from the Dean.

#### FEES AND FINANCIAL REGULATIONS

For a statement of fees and financial regulations, see pages 56-59.

#### SCHOLARSHIPS, PRIZES, LOAN FUNDS

The following scholarships may be assigned in the School of Government: Citizens' Military Training Camps Scholarship; Isaac Davis Scholarship; David Spencer Scholarship.

For particulars regarding scholarships, prizes, and loan funds, see pages 60-68.

#### INDEPENDENT STUDY PLAN

Under the independent study plan a student of demonstrated capacity with special interest in a course may, upon approval of his project by the instructor in charge and by the Dean, be permitted to undertake independent study under the personal direction of the instructor. Under this plan the student, though relieved of formal class requirements, will cover the essentials of the course and, in addition, will develop the particular field of his project. Any project may be terminated at the end of any semester at the option of either student or instructor.

#### GENERAL REGULATIONS

Students in the School of Government are subject to, and are expected to familiarize themselves with, the general University regulations stated on pages 48-59 and 69-74.

## AMOUNT OF WORK

Full-time students who are in good standing (not on probation) may take up to seventeen semester-hours. Students employed more than twenty-four hours a week, who are in good standing, may take up to ten semester-hours.

Full-time undergraduate students whose quality-point index is 3.5 or higher, may take up to nineteen semester-hours. Undergraduate students employed more than twenty-four hours a week, whose quality-point index is 3.5 or higher, may take up to twelve semester-hours.

Exceptions to these rules will require the approval of the Dean.

## ATTENDANCE

The student is held responsible for all the work of the courses in which he is registered, and all absences must be excused by the instructor in charge before provision is made for him to make up the work missed.

## CLASSIFICATION OF STUDENTS

A student who holds a Certificate of Junior Standing from the Junior College, or its equivalent from an accredited institution, and who has registered his choice of one of the prescribed curricula at the Office of the Registrar, is classed as a *junior*.

A student who has completed thirty semester-hours in the School of Government is classed as a *senior*.

A student who has satisfactorily completed the work for the baccalaureate degree, and who has registered his choice of one of the prescribed fields of study at the Office of the Registrar, is classed as a *master of course*.

## COURSES OF INSTRUCTION

The courses of instruction are listed in alphabetical order beginning on page 201.

INFORMATION ON CERTAIN BRANCHES OF GOVERNMENTAL  
FOREIGN SERVICE

## DEPARTMENT OF STATE

An act of Congress of May 24, 1924, provides for the reorganization of the Foreign Service and consolidates the Consular and Diplomatic services so far as status of personnel and requirements for entrance are concerned. A bulletin entitled *American Foreign Service* reads, in part, as follows:

Scope of Examination: The examination will be in two parts, one written and the other oral, each part counting equally. The written examination will include the subjects prescribed by the President, to wit: Modern languages (French, Spanish, or German is required, and a candidate may offer, in the oral test, in



addition to one of these any languages with which he may be familiar), elements of international, commercial, and maritime law, political and commercial geography, the natural, industrial, and commercial resources and commerce of the United States with especial relation to the possibilities of trade expansion and promotion, American history, government and institutions, the history since 1850 of Europe, Latin America, and the Far East, with particular attention to political and economic tendencies, and the elements of political economy. Candidates will be examined in arithmetic as used in commercial statistics, tariff calculations, exchange and simple accounting, and they will be rated in English, composition, grammar, punctuation, spelling, and penmanship as shown by their replies to questions in the written examination.

The oral examination will be designed to ascertain the physical, mental, and temperamental qualifications of candidates for the proper performance of the duties of the Foreign Service; their character, ability, address, judgment, and fitness, general education and culture, and contemporary information, experience, and business ability.

#### DEPARTMENT OF COMMERCE

A bulletin entitled *Appointments to Positions at Home and Abroad in the Bureau of Foreign and Domestic Commerce*, with reference to "Qualification Standards", read, in part, as follows:

The following qualifications are stated very broadly, several of them pertain particularly to applicants for foreign service. It should be kept in mind that there are two classes of field service—foreign and domestic—the reader will have little difficulty in determining to which of these classes any particular statement applies.

Apart from a good address and appearance, some of the principal requirements may be enumerated as follows (other qualifications being equal, the applicant with experience in practical exporting is given preference).

- (a) A thorough knowledge of the principles of economics, banking, commercial geography, and foreign trade.
- (b) A thorough knowledge of international trade movements and practice.
- (c) A general knowledge of export trade technique.
- (d) A thorough reading and speaking knowledge of at least one foreign language of commercial importance.
- (e) Residence or travel abroad is highly desirable.
- (f) Experience in some business undertaking which gives a broad view of trade development and intimate knowledge of business practices.
- (g) Ability to address public gatherings.
- (h) Ability to write good, businesslike reports.
- (i) A knowledge of the resources of the United States and familiarity with industrial development of the country in relation to both domestic and export trade.

#### THE BACHELOR OF ARTS DEGREE

Upon the satisfactory completion of the undergraduate requirements of the School of Government, the degree of Bachelor of Arts in Government, with a designation of the major field of study, is conferred. The major fields are Government, Business Administration, Finance, Domestic Commerce, Foreign Service, and Foreign Commerce.

## REQUIREMENTS FOR THE DEGREE

To be recommended for a degree a student must satisfy the admission, residence, scholarship, and curriculum requirements. *Particular attention is called to the statement of graduation requirements on pages 71-73.*

## SCHOLARSHIP

The system of grading and of computing scholarship is described in detail on pages 70-71.

In order to graduate a student must have a quality-point index of at least 2.00.

*Probation.*—Students must maintain a quality-point index of at least 2.00 or they are placed on probation. Students remain on probation as long as they fail to attain this index.

*Dismissal.*—Students having a quality-point index below 1.00 or who are placed on probation for a third semester, whether successive or after an interval, are suspended.

Students suspended for poor scholarship may apply for readmission after an interval of a calendar year. A student applying for readmission under this rule must submit evidence to the Dean that during this absence from the University he has so conducted himself as to indicate that he will profit by readmission. Students suspended twice for poor scholarship are not readmitted.

For the purpose of these rules, the Summer Sessions are considered a semester.

In the case of students with limited schedules, the foregoing scholarship rules are applied only when the student has undertaken fifteen semester-hours or more.

## CURRICULUM REQUIREMENTS

For recommendation for graduation the School of Government requires, in addition to the appropriate Junior College work (see page 89 and table facing pages 97-91), a minimum of sixty semester-hours during the two senior-college years, as set forth in one of the following curricula. There are six curricula, each leading to the degree of Bachelor of Arts with a designation of the major field of study.

## GOVERNMENT

Political Science 111-12 (Comparative European Governments, six hours); 121-22 (Constitutional Law, six hours), either 181-82 (International Law, six hours) or 171-72 (International Organization, three hours, and International Relations, three hours); and six additional hours	24
Economics	12

	Sem.
	hrs
History.....	12
Electives*.....	12
Total.....	60

BUSINESS ADMINISTRATION

Economics 109-10 (Commercial Geography, six hours); 119 (Money and Banking, three hours); 120 (Banking Systems, three hours); 124 (Federal Taxation, three hours); 131 (Business Organization and Control, three hours); 132 (Business Management, three hours); 137-38 (Advanced Accounting, six hours); six hours from 139 (Cost Accounting, three hours), 144 (Accounting Theory and Problems, three hours), 140 (Auditing, three hours, or 145 (Managerial Accounting, three hours); 147 (Marketing, three hours)	36
Political Science 127-28 (Commercial and Maritime Law, six hours); and six additional hours.....	12
Electives.....	12
Total.....	60

FINANCE

Economics 109-10 (Commercial Geography, six hours); 119 (Money and Banking, three hours); 120 (Banking Systems, three hours); 123 (Public Finance, three hours); 124 (Federal Taxation, three hours); 126 (International Banking and Exchange, three hours); 135 (Corporation Finance, three hours); 136 (Investments, three hours); 147 (Marketing, three hours)	30
Political Science 127-28 (Commercial and Maritime Law, six hours), and twelve additional hours.....	18
Electives.....	12
Total.....	60

DOMESTIC COMMERCE

Economics 105 (History of Commerce, three hours); 106 (Economic Development of the United States, three hours); 109-10 (Commercial Geography, six hours); 119 (Money and Banking, three hours); 120 (Banking Systems, three hours); 131 (Business Organization and Control, three hours); 132 (Business Management, three hours); 135 (Corporation Finance, three hours) or 136 (Investments, three hours); 147 (Marketing, three hours); 191-92 (International Economic Relations, six hours).....	36
Political Science.....	12
Electives.....	12
Total.....	60

\* Recommended courses from which electives may be selected: Political Science 117 (Political Theory, three hours), 124 (Theory of Government, three hours), 125 (Economic and Maritime Law, six hours), Economics 113 (Public Finance, three hours), 124 (Federal Taxation, three hours), 126 (International Banking and Exchange, three hours), 135 (Corporation Finance, three hours), 136 (Investments, three hours), 147 (Marketing, three hours), History (various courses), English (various courses in composition and literature); Sociology; modern foreign languages; Public Speaking.



## FOREIGN SERVICE

Sem.  
hrs.

Political Science 111-12 (Comparative European Governments, six hours) or 171-72 (International Organization, three hours, and International Relations, three hours); 127-28 (Commercial and Maritime Law, six hours); 181-82 (International Law, six hours); and either six hours from 191 (Near East, three hours), 192 (Far East, three hours), and 195-96 (Political Institutions of Hispanic America, six hours), or History 175-76 (Hispanic-American History, six hours); and six additional hours. ....	30
Economics 109-10 (Commercial Geography, six hours); 191-92 (International Economic Relations, six hours). ....	12
History: six hours of courses to be selected from 105 6* (History of the Foreign Relations of the United States, six hours); 141 (History of Modern Colonization, three hours), and 143 (Modern Imperialism, three hours)† . . .	6
Electives‡ . . .	12
<b>Total. ....</b>	<b>60</b>

## FOREIGN COMMERCE

Economics 105 (History of Commerce, three hours), 106 (Economic Development of the United States, three hours), 109-10 (Commercial Geography, six hours); 119 (Money and Banking, three hours); 120 (Banking Systems, three hours); 126 (International Banking and Exchange, three hours), 150 (Exporting and Importing, three hours), 191-92 (International Economic Relations, six hours). ....	30
Political Science 127-28 (Commercial and Maritime Law, six hours); 181-82 (International Law, six hours); and six hours selected from 171 (International Organization, three hours), 172 (International Relations, three hours), 191 (Near East, three hours), 192 (Far East, three hours), 195-96 (Political Institutions of Hispanic America, six hours). ....	18
Electives. ....	12
<b>Total. ....</b>	<b>60</b>

## EXAMINATIONS FOR WAIVING CURRICULUM REQUIREMENTS

A student desiring to omit a required course may take such examination as the department prescribes, and, on passing satisfactorily, he may be relieved of the curriculum requirement in that subject and qualify for registration in an advanced course. Passing of this examination shall not entitle the student to any hours of credit toward the degree. Students desiring to take such examinations should make the request of the Dean.

A fee of \$5 for each examination is to be paid at the Comptroller's Office and the receipt exhibited at the door of room 27, building W, on September 22 or 23 at 2 p.m. for the first semester, and on February 2 or 3 at 2 p.m. for the second semester. Two hours will be allowed for the examination. Should a student wish to take more than one examination, arrangements will be made accordingly.

\* Where not already taken in satisfaction of Junior College requirements.

† Other courses may be substituted by special permission of the Dean.

‡ Electives recommended are Economics 105 (History of Commerce, three hours), 120 (Economic Development of the United States, three hours), 126 (International Banking and Exchange, three hours), courses in Geography and Public Speaking.

The following courses offered by the Law School may be taken as electives by students who have had at least two years of Law in an approved law school: Administrative Law, Conflict of Laws and Municipal Corporations.

## THE MASTER OF ARTS DEGREE

Upon the satisfactory completion of the graduate requirements of the School of Government, the degree of Master of Arts, with a designation of the major field of study, is conferred. The major fields are Government, Business Administration, Finance, Domestic Commerce, Foreign Service, and Foreign Commerce.

### CANDIDACY

A student is formally recognized as a candidate for the Master's degree only when his application for candidacy has been approved by the Dean. Applications are made on a form obtainable at the Office of the Registrar, and such applications must be approved before the student becomes a formal candidate.

Before being admitted to candidacy the student must show a reading knowledge of at least one modern foreign language to be selected by the Dean.

### REQUIREMENTS FOR THE DEGREE

Thirty semester-hours of work, distributed at the discretion of the Dean, must be completed successfully. A thesis, counting six semester-hours of the above thirty semester-hours, may or may not be required at the discretion of the Dean.

At least twelve semester-hours must be taken in the School of Government, irrespective of the amount transferred from other institutions.

Not more than twelve semester-hours of work may be taken in the School of Medicine or the Law School; but work so taken cannot be counted toward both the Master's degree and a degree in Medicine or Law.

In addition to the course examinations, candidates must pass a general final examination on the major subject. The examination may be either oral or written, or both.

Advanced work in other institutions of learning may be credited toward the Master's degree to the extent of not more than twelve semester-hours upon presentation of detailed certificates of the work for which credit is sought.

Work completed here, or elsewhere, more than three years prior to registration for the Master's degree, will be counted only if the candidate successfully passes an examination on the subject matter of the work offered for credit.

Second-group courses (numbered 101-200) taken in the senior year of college may be counted, provided that the student shall notify the Dean of the School of Government at the beginning of such courses of his desire to count them, and provided that the student shall have done such extra work on the courses as may be prescribed by the professors concerned.

No work counted toward the baccalaureate degree may be counted toward a Master's degree.

A student who expects to continue his studies for the degree of Doctor of Philosophy after receiving the Master's degree is strongly advised so to plan his program from the beginning that work for the lower degree may count for the higher.

*Particular attention is called to the statement of graduation requirements on pages 71-73.*

#### RESIDENCE

A minimum of one year must be completed in residence. Summer Sessions work may be counted in residence, but in no case may the period of residence aggregate less than twenty-seven weeks. Unless special permission has been granted by the Dean to pursue the work elsewhere, the last work before graduation must be completed in residence.

No credit is granted for work done in absentia, i.e., without formal instruction here or at some other institution of learning, except for the thesis, which may be completed in absentia with the permission of the department concerned.

#### SCHOLARSHIP

Students whose scholarship is unsatisfactory may be suspended by the Dean. Regarding the system of grading, see pages 70-71.

#### THE THESIS

In case a thesis is required, it must be registered for not later than the beginning of the final year, unless the professor in charge of the thesis permits registration at the beginning of the final semester. For this purpose the nine weeks' term of the Summer Sessions is considered as a semester. The choice of the thesis subject must be approved by the professor in charge and recorded in the Office of the Registrar by the date announced in the University calendar. The typewritten thesis in its final form must have the approval of the professor and must be presented to the Dean by the student not later than the date announced in the University calendar. Requirements regarding the form of the thesis are stated on page 73.



## THE DIVISION OF LIBRARY SCIENCE

### THE FACULTY

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University.*

Alfred Francis William Schmidt, A.M., *Director of the Division of Library Science.*

### STAFF OF INSTRUCTION

Alfred Francis William Schmidt, A.M., *Professor of Library Science*

George Franklin Bowerman, A.B., B.L.S., L.H.D., *Professorial Lecturer in Library Science.*

Charles Martel, *Professorial Lecturer in Library Science.*

Elizabeth Adams Lathrop, A.B., *Assistant Professor of Library Science*

Ernest Kletsch, *Lecturer in Library Science.*

Adelaide Hasse, *Lecturer in Library Science.*

## GENERAL INFORMATION

### ADMISSION

For a statement of the general regulations and procedure for admission to the University, see pages 48-52.

The Certificate of Junior Standing from the Junior College, or its equivalent, will be accepted for admission to the Division of Library Science. It is recommended that students expecting to enter the Division should have at least two years of either French or German, courses in General Psychology and Principles of Sociology, and a knowledge of typewriting.

Careful consideration will be given to the aptitude and personal qualifications for library work of all applicants. In general, an applicant over thirty-five years of age is not encouraged to enter training for service in public libraries.

Advanced standing will be allowed for courses taken in accredited colleges. Library experience will not be credited toward graduation. However, students with professional experience may be released from the practice work required in connection with classroom instruction.

Special students and auditors are referred to the Division of University and Extension Students.

### GRADUATE WORK

To be admitted to graduate standing in the Division of Library Science a student must have previously completed the required undergraduate

courses in Library Science and hold a baccalaureate degree. Students who wish to undertake graduate work in Library Science will confer with the Director of the Division concerning course and thesis requirements.

#### REGISTRATION

For information and regulations regarding registration, see pages 53-54.

#### FEES AND FINANCIAL REGULATIONS

For a statement of fees and financial regulations, see pages 55-56.

#### SCHOLARSHIPS, PRIZES, LOAN FUNDS

The following scholarships may be assigned to students in the Division of Library Science: Isaac Davis Scholarship; David Spencer Scholarship.

For particulars regarding scholarships, prizes, and loan funds, see pages 60-68.

#### GENERAL REGULATIONS

*Students in the Division of Library Science are subject to, and are expected to familiarize themselves with, the general University regulations stated in pages 48-59 and 69-74.*

#### AMOUNT OF WORK

The normal program of studies for full-time students is set forth below under "Curriculum Requirements". Nine hours a week constitutes a normal program of work for students with limited schedules.

#### COURSES OF INSTRUCTION

The courses of instruction are listed in alphabetical order beginning on page 201.

#### THE DEGREE

Upon the satisfactory completion of the requirements of the Division of Library Science, the degree of Bachelor of Arts in Library Science is conferred.

#### REQUIREMENTS FOR THE DEGREE

To be recommended for a degree a student must satisfy the admission, residence, scholarship, and curriculum requirements. Particular attention is called to the statement of graduation requirements on pages 71-73.

#### SCHOLARSHIP

The system of grading and of computing scholarship is described in detail on pages 76-77.

In order to graduate a student must have a quality-point index of at least 2.00.

*Probation.*—Students must maintain a quality-point index of at least 2.00 or they are placed on probation. Students remain on probation as long as they fail to attain this index.

*Dismissal.*—Students who receive a grade of *E* or *F* in two courses in two successive semesters are suspended.

Students who fall under probation for the third semester, whether successive or after an interval, are suspended.

Students suspended for poor scholarship may apply for readmission after an interval of a calendar year. A student applying for admission under this rule must submit evidence to the Director of the Division that during this absence from the University he has so conducted himself as to indicate that he will profit by readmission. Students suspended twice for poor scholarship will not be readmitted.

For the purpose of these rules, the Summer Sessions are considered a semester.

In the case of students with limited schedules, the foregoing scholarship rules are applied only when the student has undertaken fifteen semester-hours or multiples thereof, unless he receives a grade of *E* or *F* in two courses in two successive semesters.

### CURRICULUM REQUIREMENTS

The curriculum is planned for students electing Library Science as a major. The courses required are designed to give students professional training that will prepare them to enter upon active library service. A librarian must have, in addition to executive training, scholarly attainments based on deep cultural interests and sympathies. He should be trained in the modern languages and in history, sociology, literature, and science. The curriculum, as outlined, combines these features with the technical subjects.

Junior Year		Senior Year	
	Sem- Hrs.		Sem- Hrs.
Library Science 101-2	4	Library Science 151-52 or 171-72	4
Library Science 121-22	6	Library Science 161-62 or 181-82	4
Library Science 131-32	4	Library Science 191-92	4
Library Science 141	2	Language or literature (second group)	6
Library Science 142	2	German	6
Sociology (second group) or Education or Economics	6	Elective (Science or Art History)	6
German	6		
Total	30	Total	30

Seniors of high scholastic record, as well as college graduates satisfying the language and other curriculum requirements, may complete the



course in one year and receive the degree of Bachelor of Arts in Library Science.

In the technical phase of Library Science, cataloguing and classification go together and precede all other courses, as they are involved in all other branches of library work.

In addition to the major in Library Science, it is recommended that students choose as electives courses in some one field of study which shall constitute a secondary major.

A reading knowledge of French and German is required. In very special cases, however, some other language may be substituted for either, but not for both.

When choice is indicated in the curriculum, the selection of a course depends on the student's previous course of study or his special preference. If a student presents satisfactory credit for a required course, an elective, subject to the approval of the Director, may be substituted.

#### PRACTICE AND EXPERIENCE

Practice and experience in the University Library go with the periods of classroom instruction and discussion and constitute integral parts of the course.

Students who have had adequate library experience will be released from this requirement. A limited number of students, who have the qualifications and personality necessary for that service, will gain their experience in the Public Library of the District of Columbia, and a few others in special libraries, both governmental and institutional.

The graduate courses will be conducted with the cooperation of the Committee on Library Training of the District of Columbia Library Association, in part at the Library of Congress under the immediate supervision of departmental chiefs, in part at the Public Library under the supervision of the Librarian, and in part at several of the great special libraries in Washington under the direction of the Committee itself. Students will enjoy the advantage not only of becoming familiar with the administration and distinguishing characteristics of some of the most highly specialized libraries in America, but also of expert guidance and personal contact with outstanding men and women of the library profession.

## THE DIVISION OF FINE ARTS

### THE FACULTY

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University.*

Norris Ingersoll Crandall, M.Arch., *Director of the Division of Fine Arts*

### STAFF OF INSTRUCTION

Norris Ingersoll Crandall, M.Arch., *Professor of Architecture.*

Samuel Burtis Baker, *Professorial Lecturer and Critic in Drawing and Painting.*

Donald Chenoweth Kline, B.Arch., *Assistant Professor of Architecture.*

Eugen Weisz, *Lecturer and Critic in Graphic Art*

George Richard Roberts, A.M., LL.B., C.E., *Lecturer in Architecture.*

Albert Nelson Davis, *Associate in Graphic Art.*

Arthur Beaupre Darton, B.Arch., *Associate in Architecture.*

Edwin Armstrong Weihe, B.Arch., *Associate in Architecture.*

## GENERAL INFORMATION

### INTRODUCTORY

The purpose of the Department of Architecture is to give the student a knowledge of, and make him proficient in, the fundamental work involved in the design and construction of buildings. The creative work is most important for the professional architect, and to this end the training in expression and design in the graphic arts is especially stressed. The other work necessary for the complete academic preparation of the student to practice as a professional architect complements the creative work in the Architecture course. For those who find themselves more adapted to the actual construction or administration of buildings, courses in Business Administration, Civil Engineering, and Building Construction are substituted for the Architectural Design courses and Graphic Art work.

The purpose of the Department of Graphic Art is to give the student a knowledge and appreciation of the fine arts, and to enable him to acquire a proficiency in expression through the different mediums used in the graphic arts. For those who find themselves more interested in the history and criticism of art than in expression through the graphic arts, courses in the History of Architecture and other allied subjects are substituted for the Graphic Art work. For those who expect to major in Illustration, extended work in this field is offered.

### THE LIBRARY

The library contains about two thousand volumes, including most of the standard works on architecture, sculpture, and painting; the Russell Sturgis collection of 7,500 carefully selected photographs of architecture, sculpture, and painting; and the important architectural and art periodicals. Library rooms are adjacent to the drafting rooms. Provision is made for obtaining books from the University Library or the Library of Congress.

### ART COLLECTIONS

The National Gallery of Art, housed in the National Museum, the Freer Gallery of Art, and the Corcoran Gallery of Art, as well as the extensive collection of prints in the Library of Congress, are all available to the student.

### ADMISSION

For a statement of the general regulations and procedure for admission to the University, see pages 48-52.

Special students and auditors are referred to the Division of University and Extension Students.

### FOR THE BACHELOR'S DEGREES

Admission to the Division of Fine Arts is based on a Junior Certificate or on the evidence of the satisfactory completion of two years of college work.

Candidates for admission are required to present a certificate stating that the work has been satisfactorily completed as follows: for the Architecture, Building, and Building Administration curricula, a certificate of the pre-Architecture curriculum or its equivalent; and for the Illustration and Art curricula, a certificate of the pre-Art curriculum or its equivalent.

### FOR THE MASTER'S DEGREES

To be admitted to candidacy for the Master of Arts degree, a student must present a Bachelor of Arts degree from an accredited institution. To be admitted to candidacy for the Master of Fine Arts degree, a student must present either a Bachelor of Architecture degree or a Bachelor of Fine Arts degree or its equivalent from an accredited institution. Students from unaccredited institutions may be admitted, at the discretion of the Faculty, if recommended by the major department. Such students shall complete one semester's work in the Division of Fine Arts and receive the recommendation of the major department before registering for the degree.

### ADVANCED STANDING

Advanced credit from art and architecture schools which are not affiliated with an accredited college or university may be established by



registering in more advanced work of the same type for which credit is desired. If the work is satisfactory, the credit will be transferred from the institution at which previous training was received. Practical experience alone will not be accepted for advanced credit.

#### REGISTRATION

For information and regulations regarding registration, see pages 53-54. All schedules must be approved by the Director of the Division.

#### FEES AND FINANCIAL REGULATIONS

For a statement of fees and financial regulations, see pages 55-59.

#### SCHOLARSHIPS, PRIZES, LOAN FUNDS

The following scholarships may be assigned to students in the Division of Fine Arts: Isaac Davis Scholarship; David Spencer Scholarship.

For particulars regarding scholarships, prizes, and loan funds, see pages 60-68.

#### GENERAL REGULATIONS

*Students in the Division of Fine Arts are subject to, and are expected to familiarize themselves with, the general University regulations stated on pages 48-59 and 69-74.*

#### AMOUNT OF WORK

The normal program of studies for full-time students is set forth below under "Curriculum Requirements". Students with limited schedules will take a proportionately longer time to complete the curricula.

#### ATTENDANCE

Regular attendance is required in all classes and at all criticism periods. Irregular attendance may cause the work of any student to be rejected. All drawing-room work must be done in the drawing rooms of the University.

#### CLASSIFICATION OF STUDENTS

Students are classified as follows: *juniors*, those who have earned sixty-four semester-hours of credit; *seniors*, those who have earned ninety-four semester-hours of credit; *professionals*, those who are registered for a professional degree; *graduates*, those who are registered for a graduate degree.

#### LIBRARY BOOKS

Students are held responsible for any books removed from the library and will be required to pay for loss, mutilation, or damage done.

## COURSES OF INSTRUCTION

The courses of instruction are listed in alphabetical order beginning on page 201.

## THE BACHELOR'S DEGREES

Upon the satisfactory completion of the undergraduate requirements of the Division of Fine Arts, the degree of Bachelor of Arts with a designation of the major field of study is conferred. The major fields are Architecture, Building, Building Administration, Illustration, and Art. Upon the completion of further specified requirements, the professional degree of Bachelor of Architecture or Bachelor of Fine Arts is conferred.

## REQUIREMENTS FOR THE DEGREES

To be recommended for a degree a student must satisfy the admission, residence, scholarship, and curriculum requirements. *Particular attention is called to the statement of graduation requirements on pages 71-73.*

## SCHOLARSHIP

The system of grading and of computing scholarship is described in detail on pages 70-71.

In order to graduate a student must have a quality-point index of at least 2.00.

A student taking twelve semester-hours or more, whose scholarship is below a *D* average in values during any one semester, shall be dropped. A student taking less than twelve semester-hours, whose scholarship is below a *D* average in values during any two successive semesters, shall be dropped.

A student whose scholarship is below a *C* average in values shall be placed on probation. A student shall be taken off probation after he has attained a *C* average or higher in values. A student who has been on probation for two successive semesters shall be dropped.

After an interval of one semester a student who has been dropped may apply for readmission. A student who has been dropped twice for poor scholarship will not be readmitted.

## CURRICULUM REQUIREMENTS

The curriculum requirements include, for the Bachelor of Arts degree, a total of at least 124 semester-hours of credit, and for the Bachelor of Architecture and Bachelor of Fine Arts degrees, at least 154 semester-hours of credit.

BACHELOR OF ARTS

*Architecture*

Junior Year		Senior Year	
	Sem. hrs.		Sem. hrs.
Architecture 21-22.....	2	Architecture 125-26.....	12
Architecture 23-24.....	2	Architecture 131-32.....	6
Architecture 27-28.....	8	Architecture 133-34.....	4
Architecture 111-12.....	4	Graphic Art 101-2.....	4
Graphic Art 3-4.....	4	Graphic Art 105.....	2
Graphic Art 7-8.....	4	Graphic Art 108.....	2
Civil Engineering 43-44.....	6		
Total.....	30	Total.....	30

*Building*

Junior Year		Senior Year	
Architecture 111-12.....	4	Architecture 133-34.....	4
Architecture 131-32.....	6	Architecture 141-42.....	8
Architecture 135-36.....	2	Economics 119.....	3
Civil Engineering 1.....	3	Economics 124.....	3
Civil Engineering 43-44.....	6	Economics 131.....	3
Civil Engineering 61.....	3	Economics 132.....	3
Economics 21-22.....	6	Political Science 127-28.....	6
Total.....	30	Total.....	30

*Building Administration*

Junior Year		Senior Year	
Architecture 111-12.....	4	Architecture 133-34.....	4
Architecture 123-24.....	6	Architecture 141-42.....	8
Architecture 131-32.....	6	Economics 119.....	3
Architecture 135-36.....	2	Economics 124.....	3
Economics 21-22.....	6	Economics 133-36.....	6
Public Speaking 1 and 2.....	6	Political Science 127-28.....	6
Total.....	30	Total.....	30

*Illustration*

Junior Year		Senior Year	
Graphic Art 3-4.....	4	Graphic Art 101-2.....	4
Graphic Art 7-8.....	4	Graphic Art 105.....	2
Graphic Art 11-12.....	4	Graphic Art 108.....	2
Graphic Art 27-28.....	12	Graphic Art 125-26.....	12
Architecture 11-12.....	4	Architecture 111-12.....	4
Architecture 13-14.....	2	Electives.....	6
Total.....	30	Total.....	30



		<i>Art</i>	
Junior Year		Senior Year	Sem hrs
	Sem. hrs.		
Graphic Art 11-12.....	4	Architecture 111-12.....	4
Architecture 11-12.....	4	Architecture 145-46.....	2
Architecture 13-14.....	2	Electives.....	24
Architecture 123-24.....	6		
Electives.....	14	Total.....	30
Total.....	30		

## PROFESSIONAL DEGREES

<i>Bachelor of Architecture</i>		<i>Bachelor of Fine Arts</i>	
Architecture 127-28.....	12	Graphic Art 103-4.....	4
Architecture 141-42.....	8	Graphic Art 127-28.....	12
Architecture 143-44.....	2	Architecture 145-46.....	2
Architecture 145-46.....	2	Electives.....	12
Electives.....	6		
Total.....	30	Total.....	30

## THE MASTER'S DEGREES

Upon the satisfactory completion of the graduate requirements of the Division of Fine Arts, the degree of Master of Arts or Master of Fine Arts is conferred.

## REQUIREMENTS FOR THE DEGREES

## RESIDENCE

A candidate must pass in residence and study at this University at least two semesters, or one semester and one summer term of nine weeks, or three summer terms of nine weeks each, or four summer terms of six weeks each. No credit will be granted for work done in absentia, except for the thesis, which may be completed in absentia with the permission of the department concerned.

## SCHOLARSHIP

In order to graduate a student must have a grade of *A* or *B* in all work.

## CURRICULUM REQUIREMENTS

To receive either the degree of Master of Arts or Master of Fine Arts, the candidate must complete successfully twenty-four semester-hours of work in addition to the thesis, forming a consistent plan of study and subject to the following limitations: (a) Courses may be elected from one, two, or three departments of the University. (b) At least twelve semester-

hours, plus the thesis, must be in the major subject. (e) At least twelve semester-hours must be taken in this University. (d) The minimum amount of work in any one subject (not course) is six hours. (c) At least six semester-hours of third-group courses must be included in the course of study. (f) The major chosen for the Master's degree must be in the same work as that for the Bachelor's degree.

#### THE THESIS

A candidate for the degree of Master of Arts or Master of Fine Arts must present a thesis in his major subject. The thesis counts as six semester-hours of credit toward the degree and must be registered for at the beginning of the final year. The choice of the thesis subject must be approved by the professor in charge of the major and recorded in the Office of the Registrar by the date announced in the University calendar. The thesis in its final form must have the approval of the professor and must be presented to the Director by the student not later than the date announced in the University calendar. If any part of the thesis is presented in written form, it must conform to the requirements stated on page 73.

#### ORAL EXAMINATION

At least three weeks before the Convocation at which the degree is expected, the candidate must pass an oral examination on his thesis and major field of work before a committee of at least five members appointed by the Director. The judgment of this committee must be written and signed by each member and transmitted to the Director at least two weeks before the stated Convocation.





## THE DIVISION OF UNIVERSITY AND EXTENSION STUDENTS

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University.*

Elmer Louis Kayser, Ph.D., *Director of the Division of University and  
Extension Students.*

### GENERAL INFORMATION

#### INTRODUCTORY

The Division of University and Extension Students was organized in 1930 in order to make the work of the University in its several divisions more fully accessible to mature students and to provide for the offering of special courses to meet special demands as they may arise from time to time. Students registered in this Division are designated "university" and "extension" students, as distinguished from regularly matriculated undergraduate and graduate students.

#### ADMISSION

Men and women over twenty-one years of age may apply for admission as university students, to pursue courses for which they have had adequate preparation. In each case the approval of the instructor concerned must be obtained. Applicants for admission must present a complete statement of the work previously pursued, on the University form. Where a student is found unable to pursue with advantage a course for which he is registered, such student may be dropped from the rolls of that course upon the recommendation of the instructor and with the approval of the Director.

In special instances, with the permission of the instructor, a person may be registered as an "auditor" in a class without being required to take active part in the exercises or to pass examinations, but no credit will be allowed for such attendance.

#### UNIVERSITY STUDENTS IN LAW

A limited number of persons who cannot qualify as candidates for a degree in Law, but who are over twenty-five years of age and because of their maturity, educational training, and practical experience seem qualified to pursue the study of Law, may be admitted as university students upon the approval of the Faculty of the Law School.

Candidates for admission as university students in Law must file written applications, setting forth their qualifications in detail, and letters and certificates to prove the facts stated therein as to their education and experience. Work done by such university students will not be counted toward a degree.

#### REGISTRATION

For information and regulations regarding registration, see pages 53-54.

#### FEES AND FINANCIAL REGULATIONS

For a statement of fees and financial regulations, see pages 55-59.

#### GENERAL REGULATIONS

*Students in the Division of University and Extension Students are subject to, and are expected to familiarize themselves with, the general University regulations stated on pages 68-52 and 69-74.*

#### TRANSFER TO REGULAR STATUS

University and extension students may be transferred, at their request, to other Colleges, Schools, and Divisions of the University only upon complying with the regulations of the specific Colleges, Schools, and Divisions as stated herein.

#### COURSES OF INSTRUCTION

The courses of instruction are listed in alphabetical order beginning on page 201.

#### EXTENSION COURSES

Special courses may be offered at the University or away from the University whenever the demand exists and the University is able to furnish proper facilities for instruction. Such courses may be credit or noncredit courses, according to University regulations. If they are for credit, the work will be of the same character and standard as that offered by the University in its regular courses.

Extramural classes may be formed by local groups. Such groups may determine, upon consultation with the Director, the possibility of organizing the type of extramural work which they desire. Extramural courses generally will be arranged to meet in one period for one hour and forty minutes weekly, for fifteen weeks. This constitutes two class hours of fifty minutes each and, when credit is granted, will count for two semester-hours' credit. Such courses must be approved in advance by the department concerned. Tuition will be charged at the rate of \$8 a semester-hour, plus the University fee for extension students. Announcements of extension courses will be issued from time to time and may be obtained upon application at the Office of the Registrar.

## THE SUMMER SESSIONS

1933

### GENERAL INFORMATION

The Summer Sessions are an integral part of the University, and all courses given are similar to the corresponding courses offered in the other terms. Academic credit for courses satisfactorily completed may be applied towards the appropriate degrees in the various Colleges, Schools, and Divisions of the University. The complete educational equipment and facilities of the University are available to students in the Summer Sessions, including libraries, laboratories, field equipment, etc. All departments of the University are open to men and women.

The Summer Sessions offer an opportunity to continue university work during the summer period. The educational value of a term of study in Washington is of great importance; it forms a background for both intelligent and appreciative citizenship. History, political science, economics, literature, and current events are all vivified by a first-hand knowledge of our national institutions. The schedule of classes allows the students ample time to visit the great libraries and laboratories of the Capital and to observe the Departments and Bureaus of the Government in operation. The many educational and scientific organizations with central offices and exhibits situated in Washington are accessible to students whose special interests draw on such resources. Excursions are arranged to the many places of beauty and historic association in nearby Virginia and Maryland.

Courses will be offered in the Junior College, Columbian College, the Graduate Council, the Law School, the School of Education, the School of Government, the Division of Library Science, the Division of Fine Arts, and the Division of University and Extension Students. Students in the School of Engineering will have the opportunity to take many of their elective and required courses in the Junior College and Columbian College curricula.

Provision is made for the social and recreational side of student life during the Summer Sessions. The University's athletic facilities and equipment are available to all students. The numerous parks and golf courses of Washington, the riding trails, water sports on the Potomac and at nearby beaches, all offer a wide choice of outdoor recreation. The University receptions and dances are annual events, and special summer editions of the student newspaper are issued. The University fee entitles all students in attendance to medical advice and treatment from the office of the University Physician. A series of University lectures upon



themes of contemporary interest by men distinguished in various phases of our modern life will be given during the Sessions.

For the benefit of out-of-town students, summer privileges (subject to certain limitations) have been granted by the Washington branch of the American Association of University Women and by the University Club of Washington. Under this arrangement many students may enjoy the use of these club houses and contact with the membership by applying to the Dean of the Summer Sessions.

#### SPECIAL PROGRAM FOR 1933

The Summer Sessions of 1933 will present a full program of academic and professional courses. In addition, special curricula have been prepared in the School of Education and the School of Government. A large number of the regular members of the University Faculty will teach during the summer, and distinguished specialists from the Departments of the United States Government and from national economic and educational organizations have been added to the staff.

Because of its situation, The George Washington University is in a position to organize certain types of academic work which profit especially by the resources of the Departments of the Federal Government and other institutions in the National Capital. The School of Government again offers a seminar-conference in the important field of Hispanic-American relations. The emphasis this year, however, is centralized on the Caribbean area, and the work is so arranged that students whose interests lie in the field of American diplomacy and particularly in the history of Mexico, Central America, the West Indies, and northern South America will receive greater benefit. The seminar-conference offers to its members an exceptional opportunity to come into intimate contact with leading authorities in the field, and the course has been so arranged that mutual views and opinions can be exchanged with maximum facility and answers to perplexing questions can be found.

Three distinct conferences or institutes have been arranged under the School of Education for the consideration of special educational topics, namely, Conference on Curriculum; Conference on the National Survey of Secondary Education; and Conference on Educational Relations to Socio-economic Problems. These institutes will meet for one week each and will be led by some of the most distinguished experts in their special fields in the Departments of the United States Government and other institutions whose activities are most closely related to the problems to be discussed.

More complete information concerning these and other features of the Summer Sessions curricula will be found in the Summer Sessions Bulletin, now available upon request.

#### GENERAL REGULATIONS

The rules and regulations of the University apply to all departments of the Summer Sessions. The announcements of the separate Colleges, Schools, and Divisions in this catalogue should be consulted for information regarding admission, advanced standing, fees, etc.

Special publications relating to the Summer Sessions will be sent to all interested persons on request.

#### COURSES OF INSTRUCTION

The courses of instruction offered in the Summer Sessions are included in the alphabetical list of courses beginning on page 201 and also in the Summer Sessions Bulletin.





COURSES OF INSTRUCTION



## COURSES OF INSTRUCTION

On the following pages of this bulletin, under the alphabetically arranged names of the departments of instruction, are listed the courses of instruction offered by the University in the summer of 1933 and in the academic year 1933-34. The courses as here listed are subject to some slight change. The University reserves the right to withdraw any course announced.

The system of numbers and symbols used in connection with these announcements of courses is explained in the following paragraphs.

### EXPLANATION OF COURSE NUMBERS

In all departments of instruction the number which precedes the name of a course indicates the semester in which that course is offered. *An odd number indicates that the course is offered in the first semester; an even number, that it is offered in the second semester; and a double number (e.g., 157-58), that it begins in the first semester and continues in the second.* This rule has no application, however, to courses offered only in the Summer Sessions. In a few cases, where a course which is numbered for one semester and is normally given in that semester, is offered this year in the opposite semester, such exception to the foregoing rule is clearly noted in the statement following the name of the course; and in each such case the course number is followed by the letter *x* (e.g., 21x).

In the Department of Law, first-year courses are numbered from 101 to 150; second-year courses, from 151 to 200; third-year courses, from 201 to 250; and graduate courses, from 251 to 300.

In the departments of the School of Medicine, first-year courses are numbered from 101 to 200; second-year courses, from 201 to 300; third-year courses, from 301 to 400; and fourth-year courses, from 401 to 500.

In all other departments the following grouping is used:  
First-group courses, numbered from 1 to 100, are planned for students in the freshman and sophomore years.

Second-group courses, numbered from 101 to 200, are planned for students in the junior and senior years. They may be credited toward higher degrees only when registration for graduate credit has been approved at the beginning of the course by the Dean responsible for the graduate work and by the officer of instruction and when the completion of additional work has been certified to by the officer of instruction.

Third-group courses, numbered from 201 to 300, are planned primarily for graduate students. They are open to seniors only with the approval of the officer of instruction.



## INDICATION OF THE AMOUNT OF CREDIT

The number of semester-hours of credit given for the satisfactory completion of a course is in most cases indicated in parentheses after the name of the course. Thus, a year course giving three hours of credit each semester is marked (3-3), and a semester course giving three hours of credit is marked (3). A semester-hour of credit usually consists of the completion of one fifty-minute period of class work or one laboratory period a week for one semester.

A dagger (†) preceding the number of a year course indicates that the course may not be entered in the second semester and that credit will not be given until the work of both semesters has been completed.

## ANATOMY

George Bain Jenkins, M.D., *Professor of Anatomy, Executive Officer.*

Othmar Charles Solnitzky, Ph.D., M.D., *Assistant Professor of Anatomy.*

William Henry Waller, Ph.D., *Instructor in Anatomy.*

John Ralston Pate, A.B., B.S., M.D., *Teaching Fellow in Anatomy.*

- |       |                                                                                                                                                                                                                      |                   |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 101   | <b>Gross Anatomy</b><br>This course consists of instruction in osteology, followed by the careful dissection and study of the entire body. Sixteen hours a week.                                                     | Jenkins and Staff |
| 103   | <b>Histology and Embryology</b><br>This course includes the histogenesis and microscopic structure of the tissues and organs of the human body. Fifteen hours a week.                                                | Jenkins and Staff |
| 104   | <b>Regional Anatomy</b><br>A correlation course in which cross sections, prepared specimens, and models are employed to study the developmental, gross, and microscopic details of body structure. Six hours a week. | Jenkins and Staff |
| 105   | <b>Microscopic-Anatomy Seminar (elective)</b><br>Hours and credits to be arranged.                                                                                                                                   | Jenkins           |
| 107   | <b>Comparative Anatomy (elective)</b><br>Hours and credits to be arranged.                                                                                                                                           | The Staff         |
| 201   | <b>Functional and Surgical Anatomy</b><br>A course in applied Anatomy taught in conjunction with the clinical staff. Two hours a week.                                                                               | The Staff         |
| 203-4 | <b>Research</b><br>Hours and credits to be arranged.                                                                                                                                                                 | Jenkins and Staff |
| 205   | <b>Microtechnic</b><br>Hours and credits to be arranged.                                                                                                                                                             | The Staff         |

## ARCHITECTURE

Norris Ingersoll Crandall, M.Arch., *Professor of Architecture, Executive Officer.*

Donald Chenoweth Kline, B.Arch., *Assistant Professor of Architecture.*

George Richard Roberts, A.M., LL.B., C.E., *Lecturer in Architecture.*

Arthur Beaupre Darton, B.Arch., *Associate in Architecture.*

Edwin Armstrong Weihe, B.Arch., *Associate in Architecture.*

Minimum requirements for the major: see page 189

### FIRST GROUP

- |        |                                                                                                                                                                                                                           |           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 1      | <i>Architectural Drawing and Perspective</i> (2)<br>Drawing-room fee, \$2. Section A, Mon. and Wed., 9.10 a.m. to 12. Section B, Mon. and Thurs., 7.30 to 10.30 p.m.                                                      | Darton    |
| 3      | <i>Shades and Shadows</i> (2)<br>Prerequisite: Mechanical Engineering 4. Drawing-room fee, \$3. Section A, Mon. and Wed., 9.10 a.m. to 12. Section B, Mon. and Thurs., 7.30 to 10.30 p.m.                                 | Darton    |
| 4      | <i>Architectural Rendering</i> (2)<br>Technique and composition. Drawing-room fee, \$3. Section A, Mon. and Wed., 9.10 a.m. to 12. Section B, Mon. and Thurs., 7.30 to 10.30 p.m.                                         | Weihe     |
| 11-12  | <i>Historic Architecture</i> (2-2)<br>Wed. and Fri., 5.10 p.m.                                                                                                                                                            | Kline     |
| 13-14  | <i>Historic Ornament</i> (1-1)<br>Mon., 5.10 p.m.                                                                                                                                                                         | Kline     |
| †21-22 | <i>Art Appreciation</i> (1-1)<br>Wed., 5.10 p.m.                                                                                                                                                                          | Crandall  |
| †23-24 | <i>Principles of Planning</i> (1-1)<br>Prerequisite: Architecture 21-22 (or concurrent registration therefor). Fri., 5.10 p.m.                                                                                            | Crandall  |
| 25-26  | <i>Design</i> (3-3)<br>Simple architectural problems. Drawing-room fee, \$3 a semester. Section A, Mon. and Wed., 1.10 to 4 p.m., and Fri. or Sat., 9.10 a.m. to 12. Section B, Tues., Wed., and Fri., 7.30 to 10.30 p.m. | The Staff |



27-28 *Design (4-4)*

The Staff

Beaux Arts Institute of Design class B problems. Prerequisite: Architecture 26. Drawing-room fee, \$6 a semester; Beaux Arts fee, \$7.50 a semester. Section A, Mon., Tues., Thurs., and Fri., 9.10 a.m. to 12. Section B, Mon., Tues., Wed., and Sat., 7.30 to 10.30 p.m.

SECOND GROUP

111-12 *Historic Architecture (2-2)*

Kline

Tues. and Thurs., 6.10 p.m.

123-24 *Domestic Buildings (3-3)*

Crandall and Staff

Financial, social, and esthetic requirements. Tues. and Thurs., 5.10 p.m.; and Mon., 1.10 to 4 p.m., or Wed., 7.30 to 10.30 p.m.

125-26 *Design (6-6)*

The Staff

Beaux Arts Institute of Design class A and B problems. Prerequisite: Architecture 28. Drawing-room fee, \$6 a semester; Beaux Arts fee, \$7.50 a semester. Section A, daily, 9.10 a.m. to 12. Section B, Architecture 125 or 126, Mon., Thurs., and Fri., 7.30 to 10.30 p.m. Students with limited schedules may take Architecture 125 and 126 for two semesters each.

127-28 *Design (6-6)*

The Staff

Beaux Arts Institute of Design class A problems. Prerequisite: Architecture 126. Drawing-room fee, \$6 a semester; Beaux Arts fee, \$7.50 a semester. Section A, daily, 9.10 a.m. to 12. Section B, Architecture 127 or 128, Tues., Thurs., and Fri., 7.30 to 10.30 p.m. Students with limited schedules may take Architecture 127 and 128 for two semesters each.

131-32 *Construction (3-3)*

Roberts

Materials and practices of the building trades. Structural details, specifications, contracts, and supervision. Prerequisite: junior standing. Mon., Wed., and Fri., 5.10 p.m.

133-34 *Mechanical Equipment (2-2)*

Roberts

Plumbing, heating, ventilating, and electrical installation. Prerequisite: junior standing. Tues. and Thurs., 5.10 p.m.

135-36 *Costs (1-1)*

Estimating costs, financing, management, and repair of buildings. (Not offered in 1933-34.)

141-42 *Office Practice (4-4)*

Crandall and Staff

Working drawings, details, and specifications. Prerequisite: Architecture 132. Drawing-room fee, \$3 a semester. Section A,

Mon. and Fri., 1.10 to 4 p.m. Section B, Wed. and Fri., 7.30 to 10.30 p.m.

†143-44 *Professional Relations* (1-1)

Prerequisite: senior standing. (Not offered in 1933-34.)

145-46 *Architectural Humanities* (1-1)

Current art and architectural periodicals and special subjects.  
Prerequisite: senior standing. Mon., 5.10 p.m.

Crandall

THIRD GROUP

231-32 *Advanced Construction*

Hours and credits to be arranged. (Not offered in 1933-34.)

The Staff

251-52 *Seminar in Design*

Hours and credits to be arranged.

The Staff

## BACTERIOLOGY, HYGIENE, AND PREVENTIVE MEDICINE

Earl Baldwin McKinley, A.B., M.D., *Professor of Bacteriology, Executive Officer.*

Roscoe Roy Spencer, A.B., M.D., *Associate Professor of Hygiene and Preventive Medicine.*

Leland Wilbur Parr, Ph.D., *Associate Professor of Bacteriology.*

John Harold Hanks, Ph.D., *Assistant Professor of Bacteriology.*

Elizabeth Verder, Ph.D., *Assistant Professor of Bacteriology.*

Alden Franklin Roe, Sc.D., *Instructor in Bacteriology.*

### 111 *General Bacteriology* (3)

Hanks

A study of the fundamental facts of Bacteriology, including discussions of the industrial and hygienic applications of the science. Several groups of bacteria, yeasts, and molds are studied in the laboratory. Mon., Wed., and Fri., 9 to 11 a.m.

### 112 *Bacteriology and Immunology*

McKinley, Parr, Hanks, Roe

This course consists of both lectures and laboratory work and is designed to give the student a thorough grounding in bacteriological technique, upon the basis of which a comprehensive study is made of all the important pathogenic micro-organisms. The course stresses those phases of Bacteriology and Immunology directly related to medical problems concerning infectious diseases and their pathology, diagnosis, and treatment. Practical immunological and serological technique is also dealt with. Attention is given to certain of the helminths and protozoan parasites. The filterable viruses and rickettsiae are also considered. Eleven hours a week.

### 211 *Immunology and Serology* (elective)

Hanks, Roe

Hours and credits to be arranged.

### 212 *Hygiene*

Spencer

A course of lectures and field demonstrations dealing with problems of personal and community hygiene such as water supply, sewage disposal, food supply, infant welfare, essentials of personal health maintenance, tuberculosis, insect-borne infections, vital statistics, and medical economics. Three hours a week.

### 213 *Filterable Viruses*

McKinley, Verder

A survey of methods for the study of filterable viruses and of



the principal virus diseases. Prerequisite: Bacteriology 112.  
Hours and credits to be arranged.

- 214 *Epidemiology and Vital Statistics (elective)* Spencer  
One hour a week.

- 301 *Preventive Medicine and Public Health\** McKinley, Spencer  
A lecture course devoted to a historical survey of the development of the modern public-health movement, the physician's relation to public-health problems, prevention and control of communicable diseases, mortality and morbidity statistics, and modern public-health practices by Federal, State, municipal, and county health units. Two hours a week.

- 302 *Infectious Diseases (elective)* The Staff  
Clinical aspects of Bacteriology and prevention of the common infectious diseases. One hour a week.

- 303-4 *Research in Bacteriology* The Staff  
Hours and credits to be arranged.

- 305 *Research in Hygiene and Preventive Medicine* The Staff  
Hours and credits to be arranged.

- 309-10 *Staff Seminar* The Staff  
Biweekly.

\*The Department arranges and correlates the preventive aspects of medicine with other major departments in the School of Medicine in order to broaden the students' training in this important field.

## BIOCHEMISTRY

Vincent du Vigneaud, Ph.D., *Professor of Biochemistry, Executive Officer.*

Joseph Hiram Roe, Ph.D., *Professor of Biochemistry.*

Jesse Harmon, Ph.D., *Instructor in Biochemistry.*

Hubert Scott Loring, Ph.D., *Instructor in Biochemistry.*

Oliver John Irish, A.M., *Instructor in Biochemistry.*

Helen Marie Dyer, A.M., *Teaching Fellow in Biochemistry.*

- 54 *Biochemistry of Foods and Nutrition* (4) Dyer  
Lecture and laboratory course designed particularly for students of the Department of Home Economics. Tues. and Thurs., 2 to 5 p.m.

- 141-42 *Biochemistry* (4-4) Roe, Dyer  
Lecture and laboratory course for Columbian College students, similar in general content to Biochemistry 144 and 251. Mon. and Wed., 9 a.m. to 12.

- 144 *Biochemistry* du Vigneaud, Roe, and Staff  
Lecture course dealing with the Biochemistry of proteins, fats, and carbohydrates; digestion, tissues, intestinal putrefaction, and feces; blood, milk, and urine. Physical-chemical topics such as osmosis, colloids, and enzyme kinetics are brought out in their relationship to the above subjects. Attention is also given to various phases of intermediary metabolism, to the endocrines, and to the so-called deficiency diseases. Clinical aspects of the subject are stressed. Two hours a week.

- 146 *Biochemistry Seminar (elective)* du Vigneaud, Roe, and Staff  
Seminar course for freshmen amplifying the lectures in Biochemistry 144 and taking up in greater detail certain aspects of the field. One hour a week.

- 251 *Advanced Biochemistry* du Vigneaud, Roe, and Staff  
Lecture and laboratory course continuing the work of Biochemistry 144. The chemistry of proteins, fats, and carbohydrates, and digestion, tissue chemistry, hydrogen-ion concentration, and methods of quantitative analysis are studied in the laboratory. Methods of analysis of urine, blood, gastric contents, and feces which are aids in the diagnosis of diseases and metabolic disturbances are particularly stressed in the laboratory, and the interpretation of the findings by these methods

is thoroughly dealt with in the lecture work. The lectures are also designed to correlate the laboratory work with the previous semester's lecture work and to present advanced biochemical material. Two hours of lectures and nine hours of laboratory work a week.

- 252 *Biochemical Preparations* The Staff  
Hours and credits to be arranged.
- 254 *Chemistry of the Internal Secretions* (1) du Vigneaud  
Hours and credits to be arranged.
- 255-56 *Biochemical Literature* (1-1) du Vigneaud  
Seminar course on the current literature in Biochemistry, mainly for graduate students, but open to a limited number of specially qualified medical students. Hours to be arranged.
- 257-58 *Staff Seminar* The Staff  
Biweekly
- 259 *Research in Biochemistry* du Vigneaud and Staff  
Hours and credits to be arranged.



## BOTANY

Robert Fiske Griggs, Ph.D., *Professor of Botany, Executive Officer.*

Albert Spear Hitchcock, Sc.D., *Professorial Lecturer in Botany.*

Neil Everett Stevens, Ph.D., *Professorial Lecturer in Botany.*

Paul William Bowman, Ph.D., *Assistant Professor of Botany.*

Lawson Edwin Yocum, Ph.D., *Assistant Professor of Botany.*

Minimum requirements for the major, twenty-four semester-hours of Botany, with collaterals. A Biological Science major may be arranged by the Executive Officers of the Departments of Botany and Zoology for those desiring a combined major.

### FIRST GROUP

- 1 *Structure and Functions of the Flowering Plant*\* (3) The Staff  
Material fee, \$4.50. Section A, Mon. and Wed., 9.10 a.m.;  
laboratory Wed., 1.10 to 3 p.m. Section B, Mon. and Wed.,  
11.10 a.m.; laboratory Fri., 10.10 a.m. to 12. Section C, Mon.  
and Wed., 1.10 p.m.; laboratory Fri., 1.10 to 3 p.m. Section D,  
Tues. and Thurs., 9.10 a.m.; laboratory Tues., 1.10 to 3 p.m.  
Section E, Tues. and Thurs., 11.10 a.m.; laboratory Thurs.,  
1.10 to 3 p.m. Section F, Tues. and Thurs., 5.10 p.m.; labo-  
ratory Thurs., 6.30 to 8.30 p.m.

- 2 *Survey of the Plant Kingdom* (3) The Staff  
Material fee, \$4.50. Same sections as for Botany 1.

- 5 *Field Botany* (4) Griggs and Assistant  
Field trips to neighboring localities of botanical interest, with  
classroom study. Summer Sessions 1933—daily except Sat.,  
1.10 to 4 p.m., six weeks' term.

- 17-18 *Field Botany* (3 3) Bowman  
Field trip Fri., 1.10 to 5 p.m.; laboratory Mon. and Wed., 1.10  
to 3 p.m.

### SECOND GROUP

- 106 *Precession Field Trip* (2) Griggs  
To the mountains of North Carolina. Admission by permission  
of the instructor. Summer Sessions 1933—June 8-22.

\*Before considering registration for Botany, a student must obtain from the representative of the Department an assignment to a laboratory section.

- 107 *Postsession Field Trip* (2) Griggs  
To the pine barrens of New Jersey. Admission by permission of the instructor. Summer Sessions 1933—Aug. 13-26.
- †107-8 *Evolution* (3-3) Griggs  
Prerequisite: one year of college work in Botany, Geology, or Zoology. Mon., Wed., and Fri., 5.10 p.m.
- 115-16 *Cytology: Plants and Animals* (3-3) Bowman  
Prerequisite: General Botany or Zoology. Material fee, \$9 a semester. Thurs., 5.10 p.m.; laboratory Tues. and Thurs., 2 to 4 p.m., or Tues., 5 to 7 p.m., and Thurs., 6 to 8 p.m.
- 121-22 *Mosses* (3-3) Griggs  
Prerequisite: Botany 1, 2, and 5, or 17-18. Wed., 6.10 p.m.; laboratory Mon., Wed., and Fri., hours to be arranged. (Offered in 1933-34 and alternate years.)
- 123-24 *Dicots* (3-3) Griggs  
Prerequisite: Botany 1, 2, and 5, or 17-18. Wed., 6.10 p.m.; laboratory Mon., Wed., and Fri., hours to be arranged. (Offered in alternate years, not in 1933-34.)
- 125 *Physiological Plant Anatomy* (4) Griggs and Assistant  
Prerequisite: Botany 1 and 2, or 5. Summer Sessions 1933—daily except Sat., 9.40 a.m. to 12, six weeks' term.
- 135-36 *Plant Physiology* (4-4) Yocum  
Prerequisite: Botany 1 and 2; Chemistry 1-2, or 2 and 21. Material fee, \$4.50 a semester. Mon. and Wed., 5.10 p.m.; laboratory Mon. and Wed., hours to be arranged.
- 137-38 *Minor Problems* (3-3) The Staff  
Hours to be arranged.
- 172 *Teaching of Science* (2) Yocum  
Prerequisite: major in Science; two year courses in Biology, one a field course; one year course in Chemistry; one year course in Physics; twelve semester-hours in Education. Mon. and Wed., 4.10 p.m.

## THIRD GROUP

- 201-2 *Seminar* (2-2) The Staff  
Tues., 6.10 p.m.
- 203-4 *Seminar* (2-2) Stevens  
The history of Botany. Thurs., 8 p.m.
- 211-12 *Research* The Staff  
Hours and credits to be arranged.  
Summer Sessions 1933—Botany 211, hours and credits to be arranged; nine weeks' term (Griggs).

## CHEMISTRY

Colin Mackenzie Mackall, Ph.D., *Professor of Chemistry.*  
 Ralph Edward Gibson, Ph.D., *Professorial Lecturer in Chemistry.*  
 Benjamin Douglass Van Evera, M.S., *Associate Professor of Chemistry,*  
*Executive Officer.*  
 DeWitt Clinton Knowles, M.S., *Assistant Professor of Chemistry.*  
 Joseph Alfred Ambler, Ph.D., *Lecturer in Chemistry.*  
 Raleigh Gilchrist, Ph.D., *Lecturer in Chemistry.*  
 Paul Hugh Emmett, Ph.D., *Lecturer in Chemistry.*  
 John Walter Brandt, M.S., *Instructor in Chemistry.*  
 Herman Henry Kaveler, Ph.D., *Instructor in Chemistry.*  
 David Halbert Howard, Jr., Ph.D., *Instructor in Chemistry.*

Minimum requirements for the major: Chemistry 1-2, 21-22, 41-42, 111-12, 121-22, and 191-92, with Mathematics 19 and 20 and Physics 11, 12, 13, and 14 as collaterals. The work of the junior and senior years must be approved by the Department. A Physical Science major may be arranged by the Executive Officers of the Departments of Chemistry and Physics for those desiring a combined major. The German language is recommended for all majors.

*Registration.* Before completing registration for courses in which there are laboratory sections, each student must obtain from the representative of the Department an assignment to a laboratory section and locker.

*Fees.* For a statement of laboratory fees and deposits, see page 56.

### FIRST GROUP

1-2 *General Chemistry*\* (4-4) Van Evera, Howard, and Assistants  
 Section A, Mon. and Wed., 10.10 a.m. Section B, Mon. and Wed., 5.10 p.m. Laboratory: section M, Mon. and Wed., 1.10 to 4 p.m.; section N, Tues. and Thurs., 1.10 to 4 p.m.; section O, Mon. and Wed., 6.30 to 9.20 p.m.; section P, Tues. and Thurs., 6.30 to 9.20 p.m.

Chemistry 1x—same as Chemistry 1, but offered second semester. Tues. and Thurs., 5.10 p.m. Laboratory sections same as for Chemistry 1.

Chemistry 2x—same as Chemistry 2, but offered first semester. Section A, Tues. and Thurs., 11.10 a.m. Section B, Tues. and Thurs., 5.10 p.m. Laboratory sections same as for Chemistry 2.

\* Chemistry 1-2 constitutes an elementary course in General Chemistry. Students who have credit for high-school Chemistry from an accredited high school may be excused from Chemistry 1 and take Chemistry 21 or 212 following Chemistry 2 or 23.



2-21 *General Chemistry and Qualitative Analysis*\* (4-4)

Kaveler and Assistant

Summer Sessions 1933—daily except Sat., 8.40 to 9.45 a.m. and 9.55 a.m. to 1.30 p.m., nine weeks' term.

- 21-22 *Inorganic Qualitative Analysis* (4-4) Knowles and Assistants  
 Prerequisite: Chemistry 2. Section A, Mon. and Wed., 11.10 a.m. Section B, Mon. and Wed., 5.10 p.m. Laboratory: section M, Mon. and Wed., 1.10 to 4 p.m.; section N, Tues. and Thurs., 1.10 to 4 p.m.; section O, Mon. and Wed., 6.30 to 9.20 p.m.; section P, Tues. and Thurs., 6.30 to 9.20 p.m.

Chemistry 21x—same as Chemistry 21, but offered second semester. Section A, Tues. and Thurs., 11.10 a.m. Section B, Tues. and Thurs., 5.10 p.m. Laboratory sections same as for Chemistry 21.

- †41-42 *Organic Chemistry* (4-4) Mackall, Brandt, and Assistants  
 Prerequisite: Chemistry 1-2, or 2 and 21. Section A, Tues. and Thurs., 11.10 a.m. Section B, Tues. and Thurs., 5.10 p.m. Laboratory: section M, Mon. and Wed., 1.10 to 4 p.m.; section N, Tues. and Thurs., 1.10 to 4 p.m.; section P, Tues. and Thurs., 6.30 to 9.20 p.m.

Summer Sessions 1933 (4-4)—daily except Sat., 8.40 to 9.45 a.m. and 9.55 a.m. to 1.30 p.m., nine weeks' term (Mackall and assistant).

## SECOND GROUP

- †111-12 *Physical Chemistry* (5-5) Kaveler and Assistant  
 Prerequisite: Chemistry 121; Mathematics 20; Physics 14. Section A, Mon., Wed., and Fri., 11.10 a.m. Section B, Mon., Wed., and Fri., 5.10 p.m. Laboratory: section N, Tues. and Thurs., 1.10 to 4 p.m.; section P, Tues. and Thurs., 6.30 to 9.20 p.m.

- 121-22 *Quantitative Inorganic Analysis* (4-4) Knowles and Assistant  
 Prerequisite: Chemistry 21. Section A, Fri., 11.10 a.m. Section B, Fri., 5.10 p.m. Laboratory: section S, Mon., Wed., and Fri., 1.10 to 4 p.m.; section T, Mon., Wed., and Fri., 6.30 to 9.20 p.m.

- 135-36 *Inorganic Chemistry* (2-2) Knowles  
 Prerequisite: Chemistry 122. Laboratory: section N, Tues. and Thurs., 1.10 to 4 p.m. Section O, Mon. and Wed., 6.30 to 9.20 p.m.

\* Chemistry 1-2 constitutes an elementary course in General Chemistry. Students who have credit for high school Chemistry from an accredited high school may be excused from Chemistry 1 and take Chemistry 21 or 21x following Chemistry 3 or 22.

145-46 *Organic Chemistry* (2-2) Mackall and Assistant  
Prerequisite: Chemistry 42. Laboratory: section Q, Wed.  
and Fri., 1.10 to 4 p.m.; section R, Wed. and Fri., 6.30 to 9.20  
p.m.

1191-92 *History of Chemistry* (1-1) Mackall  
Prerequisite: Chemistry 42 and 121. Section A, Fri., 10.10  
a.m. Section B, Fri., 5.10 p.m.

## THIRD GROUP

1203-4 *Contact Catalysis* (2-2) Emmett  
Prerequisite: Chemistry 112. Tues. and Thurs., 5.10 p.m.

1211-12 *Systematic Chemical Thermodynamics* (2-2) Gibson  
Prerequisite: Chemistry 112; Physics 113. Tues. and Thurs.,  
5.10 p.m.

1213-14 *Atomic and Molecular Theory* (2-2) Gibson  
Prerequisite: Chemistry 42 and 112; Physics 101. Desirable  
antecedent: Physics 114. Mon. and Wed., 5.10 p.m.

225 *Quantitative Organic Analysis* (2) Mackall and Assistant  
Prerequisite: Chemistry 42 and 122. Laboratory: section  
Q, Wed. and Fri., 1.10 to 4 p.m.; section R, Wed. and Fri.,  
6.30 to 9.20 p.m.

Chemistry 225x—same as Chemistry 225, but offered second  
semester. Laboratory sections same as for Chemistry 225.

1231-32 *Advanced Inorganic Chemistry* (2-2) Gilchrist  
Prerequisite: Chemistry 42 and 122. Tues. and Thurs., 5.10 p.m.

241 *Carbohydrates* (2) Ambler  
Prerequisite: Chemistry 42. Tues. and Thurs., 6.10 p.m.

242 *Polypeptides, Dyes, and Organic Medicinals* (2) Ambler  
Prerequisite: Chemistry 42. Tues. and Thurs., 6.10 p.m.

1243-44 *Advanced Organic Chemistry and Qualitative Organic Analysis*  
(4-4) Mackall and Assistant

Prerequisite: Chemistry 22, 42, and 121. Laboratory: section  
Q, Wed. and Fri., 1.10 to 4 p.m.; section R, Wed. and Fri.,  
6.30 to 9.20 p.m.

297-98 *Research* The Staff  
Hours, fees, and credits to be arranged.

Summer Sessions 1933—hours, fees, and credits to be ar-  
ranged; nine weeks' term.

## CIVIL ENGINEERING

John Raymond Lapham, M.S., *Professor of Civil Engineering.*

Frank Artemas Hitchcock, M.S., C.E., *Professor of Civil Engineering.  
Executive Officer.*

George Albert Chadwick, B.S., *Lecturer on Mechanics.*

Chester Allen Hogentogler, C.E., *Lecturer on Highway Engineering.*

Chilton Austin Wright, C.E., M.C.E., Ph.D., *Lecturer on Hydraulics.*

Charles Edward Cook, B.S. in C.E., *Instructor in Civil Engineering.*

Harold Harrison Dutton, B.S. in C.E., *Associate in Civil Engineering.*

Joseph Carl Oleinik, M.S., *Associate in Civil Engineering.*

Minimum requirements for the major: see pages 146-47

### FIRST GROUP

- 1 *Surveying* (3) Cook  
The principles, methods, and instruments used in surveying, with field work. Prerequisite: Mathematics 12. Surveying fee, \$6. Section A, Tues. and Thurs., 1.10 p.m. Section B, Mon. and Fri., 6.10 p.m. Field work Tues., 1.10 p.m.
- 14 *Materials and Hydraulics Laboratory* (2) Cruickshanks, Dutton  
Determination of the properties of materials by mechanical tests, and a study of the flow of fluids. Prerequisite: Civil Engineering 25-26, 132, and 134 (or concurrent registration for Civil Engineering 132 and 134). Laboratory fee, \$6. Section A, Wed. and Thurs., 1.10 p.m. Section B, Tues. and Thurs., 7.30 p.m.
- 15-16 *Nautical Science* (2-2)  
Marine and aerial navigation; theory and use of instruments of navigation. Prerequisite: Trigonometry. Mon. and Fri., 5.10 p.m. (Not offered in 1933-34.)
- 25-26 *Materials of Construction* (2-2) Lapham  
Nonmetallic materials, with emphasis on cement; metallic materials, with emphasis on iron and steel. Prerequisite: Chemistry 2 and 21 (or concurrent registration therefor). Section A, Tues. and Thurs., 9.10 a.m. Section B, Mon. and Wed., 5.10 p.m.
- 41 *Graphic Statics* (3) Hitchcock  
Fundamental principles; analyses of beams; determination of



stresses in roof trusses and framed bents. Prerequisite: Civil Engineering 131 (or concurrent registration therefor). Drafting-room fee, \$1. Section A, Tues. and Thurs., 11.10 a.m., and Tues., 1.10 p.m. Section B, Tues. and Thurs., 6.10 p.m., and Thurs., 7.30 p.m.

**42 Bridge Stresses (3)**

Hitchcock

Determination of stresses in modern types of bridge trusses. Prerequisite: Civil Engineering 41 and 132 (or concurrent registration for Civil Engineering 132). Drafting-room fee, \$1. Section A, Tues. and Thurs., 11.10 a.m., and Tues., 1.10 p.m. Section B, Tues. and Thurs., 6.10 p.m., and Thurs., 7.30 p.m.

**43-44 Elements of Structures (3-3)**

Hitchcock

Primarily for architectural students. Graphic statics; analyses of beams, columns, and roof trusses; and the design and detailing of simple trusses. Prerequisite: Mathematics 12 and 19. Drafting-room fee, \$1 a semester. Wed. and Fri., 6.10 p.m., and Tues., 7.30 p.m.

**61 Highways and Pavements (3)**

Hogentogler

Highway economics, location, construction, and maintenance. Prerequisite: Civil Engineering 1 and 25 (or concurrent registration therefor). Mon., Wed., and Fri., 8 a.m. (Offered in 1933-34 and alternate years.)

**71-72 Railroad Engineering (3-3)**

Cook

Railroad curves and earthwork, and methods of location and construction of railway lines, with field work. Prerequisite: Civil Engineering 1. Surveying fee, \$3 a semester. Section A, Mon. and Fri., 2.10 p.m. Section B, Tues. and Thurs., 6.10 p.m. Field work Sat., hours to be arranged.

**SECOND GROUP**

**102 Higher Surveying (3)**

Cook

The elements of geodesy, triangulation, topography, hydrography, and precise and trigonometric leveling, with field work. Prerequisite: Civil Engineering 1. Surveying fee, \$6. Section A, Tues. and Thurs., 1.10 p.m. Section B, Mon. and Fri., 6.10 p.m. Field work Sat., hours to be arranged.

**118 Practical Astronomy (2)**

Cook

The elements of astronomy; use of the ephemeris and star catalogues; determination of latitude, time, longitude, and azimuth. Prerequisite: Civil Engineering 1. Section A, Tues. and Thurs., 2.10 p.m. Section B, Tues. and Thurs., 5.10 p.m.

- 131 *Analytical Mechanics* (5) Chadwick, Ennis  
Statics; kinematics and kinetics. Prerequisite: Mathematics 20; Physics 12 and 13. Section A, Mon., Tues., Wed., Thurs., and Fri., 10.10 a.m. Section B, Mon., Tues., Wed., Thurs., and Fri., 5.10 p.m.
- 132 *Elasticity and Resistance of Materials* (3) Chadwick, Ennis  
Tension, compression, shear, and torsion; deflection; combined and working stresses. Prerequisite: Civil Engineering 26 and 131 (or concurrent registration for Civil Engineering 26). Section A, Mon., Wed., and Fri., 10.10 a.m. Section B, Mon., Wed., and Fri., 5.10 p.m.
- 133-34 *Hydraulics* (2-2) Wright  
Prerequisite: Civil Engineering 131 (or concurrent registration therefor); Mathematics 20; Physics 12. Section A, Tues. and Thurs., 9.10 a.m. Section B, Tues. and Thurs., 5.10 p.m.
- 145-46 *Higher Structures* (3-3) Hitchcock  
Determination of the positions of loading and stresses in the more complicated structures. Prerequisite: Civil Engineering 42. Mon., Tues., and Thurs., 5.10 p.m.
- 147-48 *Structural Design* (2-2) Hitchcock  
Computations and drawings for the design of a steel bridge. Prerequisite: Civil Engineering 42. Drafting-room fee, \$3 a semester. Tues. and Thurs., 7.30 p.m.
- 149-50 *Concrete and Masonry Construction* (3-3) Hitchcock, Oleinik  
Plain concrete; general properties and theory of reinforced concrete; foundations and retaining walls; beams. Prerequisite: Civil Engineering 25 and 132. Laboratory fee, \$6 first semester; drafting-room fee, \$1 second semester. Wed. and Fri., 5.10 p.m., and Mon., 7.30 p.m.
- 181-82 *Water Supply and Sewerage* (3-3) Lapham  
Collection, storage, purification, and distribution of water; sewerage systems and treatment of sewerage. Prerequisite: Chemistry 2 and 21; Civil Engineering 134. Drafting-room fee, \$1 second semester. First semester, Mon., Wed., and Fri., 6.10 p.m.; second semester, Mon. and Fri., 6.10 p.m., and Wed., 7.30 p.m.

# CLASSICAL LANGUAGES AND LITERATURES

Charles Sidney Smith, Ph.D., *Professor of Classical Languages.*

Minimum requirements for the major: twenty-four semester-hours of Latin exclusive of Latin 21-22 and 23-24.

## GREEK

### FIRST GROUP

- †1-2 *Elementary* (3-3) Smith  
The essentials of Greek grammar; translation from Xenophon's "Anabasis". (Not offered in 1933-34.)
- 3-4 *Homer's "Iliad"; Herodotus; Lysias* (3-3) Smith  
Prerequisite: Greek 2. Mon., Wed., and Fri., 10.10 a.m.
- 5-6 *Xenophon; Plato; Euripides* (3-3) Smith  
"Memorabilia"; "Selected Dialogues"; "Alcestis". Prerequisite: Greek 4. Tues., Thurs., and Sat., 9.10 a.m.

## LATIN

### FIRST GROUP

- †21-22 *Elementary* (3-3) Smith  
The essentials of Latin grammar; translation of selections from prose authors. Hours to be arranged.
- 23-24 *Intermediate* (3-3) Smith  
Selections from Cicero's "Orations" and Virgil's "Æneid", and prose composition. Hours to be arranged. (Not offered in 1933-34.)
- 25-26 *Livy; Cicero; Horace* (3-3) Smith  
Livy, book I or XXI; "De Senectute"; "Odes and Epodes"; and prose composition. Prerequisite: four years of high-school Latin. Mon., Wed., and Fri., 2.10 p.m.

### SECOND GROUP

- 101-2 *Cicero; Pliny; Horace* (3-3) Smith  
Cicero's and Pliny's letters; Horace's satires and epistles. (Not offered in 1933-34.)
- 105-6 *Tacitus; Terence; Plautus* (3-3) Smith  
Selections from Tacitus; "Phormio" and "Captivi". (Not offered in 1933-34.)



109-10 *Horace's "Ars Poetica"; Quintilian; Catullus; Tibullus; Propertius* Smith  
(3-3)  
Tues., Thurs., and Sat., 10.10 a.m.

†113-14 *Advanced Prose Composition and Reading at Sight (1-1)* Smith  
Hours to be arranged.

#### THIRD GROUP

103-4 *Latin Seminar (3-3)* Smith  
Training in the methods of philological criticism and in the interpretation of the classical authors, with opportunities for original research. The center of study will be Cicero and Roman oratory. Hours to be arranged.

#### CLASSICAL LITERATURE

##### SECOND GROUP

121-22 *Survey of Greek and Roman Literature (3-3)* Smith  
A study, in English, of the development of the different departments of literature in ancient Greece and Rome, illustrated by readings, in translation, from the most important authors.  
Mon., Wed., and Fri., 4.10 p.m.

## DERMATOLOGY AND SYPHILOLOGY

Charles Augustus Simpson, M.D., *Professor of Dermatology and Syphilology, Executive Officer.*

Harry Ford Anderson, M.D., *Associate Professor of Dermatology and Syphilology.*

Herman Eugene Kittredge, M.D., *Clinical Instructor in Dermatology and Syphilology.*

George William Creswell, A.B., M.D., *Clinical Instructor in Dermatology and Syphilology.*

Theodore Claremont Chen Fong, M.D., *Clinical Instructor in Dermatology and Syphilology.*

### 386 Clinic

#### The Staff

Children's Hospital, one section, one hour a week for five weeks;  
Emergency Hospital, one section, one and one-half hours twice  
a week; University Hospital, one section, one hour a week.

### 387 Dermatology and Syphilology

#### Simpson

Didactic lectures and demonstration of the most common skin  
diseases in all their manifestations, and general and cutaneous  
syphilis, with special emphasis on its treatment. Two hours a  
week.

### 388 Congenital Syphilis

#### Simpson

Lectures and demonstration of eye, bone, teeth, and skin changes  
caused by congenital syphilis, with its treatment. One hour a  
week for eight weeks.

### 389-90 Neurosyphilis

#### Fong

Didactic lectures on the subject of syphilis of the brain and spinal  
cord, with special emphasis on paresis and tabes, and including  
treatment. Venereal therapy is also thoroughly discussed. One  
hour a week for eight weeks.

### 477-78 Neurosyphilis

#### Fong

The clinical application of Dermatology and Syphilology 389-  
90. St. Elizabeth's Hospital, one hour a week for six weeks.

### 479-80 Congenital Syphilis

#### The Staff

The clinical application of Dermatology and Syphilology 388.  
Children's Hospital, one section, two hours a week.

## ECONOMICS

John Donaldson, Ph.D., *Professor of Political Economy.*

Richard Norman Owens, Ph.D., C.P.A., *Professor of Accounting and Business Administration, Executive Officer.*

Joseph Steinhauer Zucker, Ph.D., *Professorial Lecturer on Taxation.*

Harold Griffith Sutton, M.S., *Associate Professor of Finance.*

Daniel Houston Buchanan, Ph.D., Sc.D., *Associate Professor of Economics*

Ralph Dale Kennedy, Ph.D., *Assistant Professor of Economics.*

Minimum requirements for the major: Economics 1-2, 105 or 106, 175, and eighteen additional semester-hours selected from Economics 105 or 106, 109-110, 119, 120, 123, 126, 131, 132, 142, 153-54, 155-56, 176, and 191-92. Elective courses must include six hours in European or English History and six hours in American or European Government. For curricula in Business Administration, Finance, Domestic Commerce, and Foreign Commerce, see the announcement of the School of Government.

### FIRST GROUP

#### †1-2 *Principles of Economics* (3-3)

Buchanan

Sections A to F, Mon. and Wed., 11.10 a.m. Sections H to K, Tues. and Thurs., 5.10 p.m. Discussion: section A, Fri., 9.10 a.m.; section B, Fri., 11.10 a.m.; section C, Fri., 11.10 a.m.; section D, Fri., 12.10 p.m.; section E, Fri., 12.10 p.m.; section F, Sat., 11.10 a.m.; section H, Fri., 5.10 p.m.; section I, Sat., 4.10 p.m.; section J, Sat., 5.10 p.m.; section K, Sat., 5.10 p.m.

Summer Sessions 1933 (3-3)—daily except Sat., 6.10 to 8 p.m., nine weeks' term.

#### 21-22 *Principles of Accounting* (3-3)

Owens, Kennedy

Section A, Thurs. and Sat., 11.10 a.m.; laboratory Tues., 11.10 a.m. to 1 p.m. Section B, Thurs. and Sat., 6.10 p.m.; laboratory Tues., 6.10 to 8 p.m. Section C, Wed. and Fri., 6.10 p.m.; laboratory Mon., 6.10 to 8 p.m.

Summer Sessions 1933 (3-3)—daily except Sat., 6.10 to 8 p.m., nine weeks' term (Owens).

### SECOND GROUP

#### 105 *History of Commerce* (3)

Kennedy

Mon., Wed., and Fri., 11.10 a.m.

Summer Sessions 1933 (3)—daily except Sat., 7.10 p.m., nine weeks' term.



- 106 *Economic Development of the United States* (3) Kennedy  
 Mon., Wed., and Fri., 11.10 a.m.  
 Summer Sessions 1933 (2) —daily except Sat., 10.40 a.m., six weeks' term.
- 109-10 *Commercial Geography* (3-3) Donaldson  
 Section A, Tues., Thurs., and Sat., 11.10 a.m. Section B, Tues., Thurs., and Sat., 6.10 p.m.  
 Summer Sessions 1933 (1) —Economics 109, daily except Sat., 6.10 p.m., nine weeks' term.
- 119 *Money and Banking* (3) Sutton  
 Prerequisite: Economics 1-2. Section A, Mon., Wed., and Fri., 9.10 a.m. Section B, Mon., Wed., and Fri., 6.10 p.m.  
 Summer Sessions 1933 (3) —daily except Sat., 5.10 p.m., nine weeks' term.
- 120 *Banking Systems* (3) Sutton  
 Prerequisite: Economics 1-2 and 119. Section A, Mon., Wed., and Fri., 9.10 a.m. Section B, Mon., Wed., and Fri., 6.10 p.m.
- 123 *Public Finance* (3) Zucker  
 Prerequisite: Economics 1-2. Mon., Wed., and Fri., 6.10 p.m.
- 124 *Federal Taxation* (3) Zucker  
 Prerequisite: Economics 1-2. Mon., Wed., and Fri., 6.10 p.m.
- 126 *International Banking and Exchange* (3) Sutton  
 Prerequisite: Economics 119. (Offered in alternate years, not in 1933-34.)
- 131 *Business Organization and Control* (3) Owens  
 Prerequisite: Economics 1-2. Tues., Thurs., and Sat., 10.10 a.m.
- 132 *Business Management* (3) Owens  
 Prerequisite: Economics 1-2. Tues., Thurs., and Sat., 10.10 a.m.
- 135 *Corporation Finance* (3) Sutton  
 Prerequisite: Economics 1-2. Mon., Wed., and Fri., 5.10 p.m.
- 136 *Investments* (3) Sutton  
 Prerequisite: Economics 135. Mon., Wed., and Fri., 5.10 p.m.  
 Summer Sessions 1933 (2) —daily except Sat., 6.10 p.m., six weeks' term.
- 137-38 *Advanced Accounting* (3-3) Owens  
 Prerequisite: Economics 21-22. Tues., Thurs., and Sat., 5.10 p.m.
- 139 *Cost Accounting* (3) Owens  
 Prerequisite: Economics 21-22. (Offered in alternate years, not in 1933-34.)

- 140 *Auditing* (3) Owens  
Prerequisite: nine semester-hours in Accounting. Tues., Thurs., and Sat., 6.10 p.m.
- 142 *Labor Problems* (3) Buchanan  
Prerequisite: Economics 1-2. (Not offered in 1933-34.)
- 144 *Accounting Theory and Problems* (3) Owens  
Prerequisite: Economics 137-38. (Offered in alternate years, not in 1933-34.)
- 145 *Managerial Accounting* (3) Owens  
Prerequisite: Economics 21-22. Tues., Thurs., and Sat., 6.10 p.m.
- 147 *Marketing* (3) Kennedy  
Prerequisite: Economics 1-2. Tues., Thurs., and Sat., 5.10 p.m.
- 150 *Exporting and Importing* (3) Kennedy  
Prerequisite: Economics 1-2. Tues., Thurs., and Sat., 5.10 p.m.
- †153-54 *Principles of Transportation* (3-3) Kennedy  
Prerequisite: Economics 1-2. Mon., Wed., and Fri., 5.10 p.m.
- 155-56 *Speculation and Insurance* (3-3) Owens  
Prerequisite: Economics 1-2. Tues., Thurs., and Sat., 9.10 a.m.
- 175 *Economic Theory* (3) Buchanan  
Mon., Wed., and Fri., 10.10 a.m.
- 176 *Economic Development of the Far East* (3) Buchanan  
Mon., Wed., and Fri., 10.10 a.m.
- 191-92 *International Economic Relations* (3-3) Donaldson  
Tues., Thurs., and Sat., 5.10 p.m.
- THIRD GROUP
- 221-22 *History and Literature of Economic Thought* (3-3) Buchanan  
Tues. and Thurs., 6.10 to 7.30 p.m.
- 251 *Seminar* (3) Donaldson  
Summer Sessions 1933—Wed., 8.10 p.m., nine weeks' term.
- 291-92 *Seminar* (3-3) Donaldson  
Tues., 8 p.m.

## EDUCATION

- William Carl Ruediger, Ph.D., *Professor of Education.*  
 William Cullen French, Ph.D., *Professor of Education, Executive Officer.*  
 William John Cooper, A.M., Ed.D., LL.D., Litt.D., Sc.D., Pd.D., *Professor of Education.*  
 Frank Washington Ballou, Ph.D., *Professorial Lecturer in Education.*  
 Julia Letheld Hahn, Ph.D., *Professorial Lecturer in Education.*  
 J. Orin Powers, Ph.D., *Associate Professor of Education.*  
 Mitchell Dreese, Ph.D., *Associate Professor of Education.*  
 James Frederick Abel, Ph.D., *Lecturer in Education.*  
 Ruth Emma Coyner, A.M., *Associate in Education.*

Minimum requirements for the major: twenty-four semester-hours in addition to Observation and Practice Teaching.

### FIRST GROUP

- 52 *Educational Psychology* (3) Ruediger, Dreese  
 Section A, Mon., Wed., and Fri., 10.10 a.m. Section B, Mon.,  
 Wed., and Fri., 5.10 p.m.

### SECOND GROUP

- 101 *Psychology of Learning* (3) Dreese  
 Mon., Wed., and Fri., 5.10 p.m.  
 105 *Mental Development* (3) Dreese  
 Child development with special reference to the period of adolescence. Prerequisite: General Psychology. Mon., Wed., and  
 Fri., 2.10 p.m.  
 111 *History of Education* (3) Cooper  
 Mon., Wed., and Fri., 5.10 p.m.  
 Summer Sessions 1933 (3)—daily except Sat., 7.40 a.m.,  
 nine weeks' term (Coyner).  
 113 *History of American Education* (2) Cooper  
 Sat., 9.10 to 11 a.m.  
 115 *History and Principles of Education* (3) Ruediger  
 Prerequisite: Educational Psychology. Mon., Wed., and Fri.,  
 9.10 a.m.



- 116 *Technique of Teaching* (3) Ruediger  
Prerequisite: Educational Psychology. Section A, Mon., Wed., and Fri., 9.10 a.m. Section B, Tues. and Thurs., 6.10 p.m., with an additional hour to be arranged.
- 118 *The Activity Program* (2) Hahn  
Summer Sessions 1933—daily except Sat., 8.40 a.m., six weeks' term.
- 119 *Philosophy of Education* (3) Ruediger  
Prerequisite: Educational Psychology. Tues. and Thurs., 6.10 p.m., with an additional hour to be arranged.
- 129-30 *Observation and Cadet Teaching* (3-3) Coyner  
Conferences. Admission by permission of the instructor. Hours to be arranged.
- 134 *Educational Measurement* (3) Dreese  
Prerequisite: Educational Psychology. Material fee, \$3. Mon., Wed., and Fri., 2.10 p.m.  
Summer Sessions 1933 (2)—daily except Sat., 8.40 a.m., six weeks' term.
- 142 *Kindergarten-Primary Education* (2) Hahn  
Summer Sessions 1933—daily except Sat., 9.40 a.m., six weeks' term.
- 146 *The Social Studies* (2) French  
Historical setting, content, and methods. Prerequisite: Principles of Education. Tues. and Thurs., 5.10 p.m.
- 147-48 *Psychology of Elementary-School Subjects* (2-2) French  
Prerequisite: Educational Psychology. Sat., 9.10 to 11 a.m.  
Summer Sessions 1933 (2)—Education 147, daily except Sat., 11.40 a.m., six weeks' term (Coyner).
- 149 *Curriculum Construction* (2) French  
Prerequisite: Principles of Education. Fri., 7.30 to 9.20 p.m.
- 151 *The High School* (3) Powers  
Prerequisite: Principles of Education. Mon., Wed., and Fri., 11.10 a.m.  
Education 151x—same as Education 151, but offered second semester. Mon., Wed., and Fri., 5.10 p.m.  
Summer Sessions 1933 (2)—daily except Sat., 9.40 a.m., six weeks' term.
- 152 *The Junior High School* (3) Powers  
Prerequisite: Principles of Education. Mon., Wed., and Fri., 11.10 a.m.

Education 152x—same as Education 152, but offered first semester. Mon., Wed., and Fri., 5.10 p.m.

Summer Sessions 1933 (2)—daily except Sat., 10.40 a.m., six weeks' term.

154 *High-School Organization* (2) Powers  
Fri., 7.30 to 9.20 p.m.

155 *Guidance in Secondary Schools* (2) Dreese  
Sat., 11.10 a.m. to 1 p.m.

Summer Sessions 1933 (2)—daily except Sat., 11.40 a.m., six weeks' term.

156 *Extracurricular Activities* (2) Dreese  
Prerequisite: Education 151 or 152. Sat., 11.10 a.m. to 1 p.m.

175 *Teaching of English* (2) French  
Prerequisite: Education 116 and eighteen semester-hours in English. Tues. and Thurs., 4.10 p.m.

185-86 *School Administration* (3-3) Cooper  
Mon., Wed., and Fri., 6.10 p.m.

188 *School Supervision* (2) Cooper  
Sat., 9.10 to 11 a.m.

189 *Foreign School Systems* (2) Abel  
Summer Sessions 1933—daily except Sat., 7.40 a.m., six weeks' term.

190 *Comparative Education* (3) Cooper  
Mon., Wed., and Fri., 5.10 p.m.

### THIRD GROUP\*

201-2 *Seminar: Educational Psychology* (3-3) Dreese  
Tues. and Thurs., 5.10 p.m.  
Summer Sessions 1933 (3)—daily except Sat., 10.40 a.m., six weeks' term.

211-12 *Seminar: Educational Origins* (3-3) French  
Thurs., 7.30 to 9.20 p.m.

217-18 *Seminar: History of American Education* (3-3) French  
Hours to be arranged.  
Summer Sessions 1933 (3)—daily except Sat., 11.40 a.m., six weeks' term.

233-34 *Seminar: Educational Tests and Measurements* (3-3) Dreese  
Prerequisite: Education 134. Fri., 7.30 to 9.20 p.m.

\* The prerequisites for each third-group course is the completion of the appropriate undergraduate work.

- 249-50 *Seminar: Curriculum (3-3)* French  
Sat., 11.10 a.m. to 1 p.m.
- 251-52 *Seminar (3-3)* Powers  
The National Survey of Secondary Education. Sat., 9.10 to 11 a.m.
- 279-80 *Seminar: Teacher-Training (3-3)* Ruediger  
Tues., 7.30 to 9.20 p.m.
- 281-82 *Seminar: Administration in Higher Education (3-3)* Cooper  
Sat., 11.10 a.m. to 1 p.m.
- 283-84 *Research Problems (3-3)* Ballou  
The direction of investigations in the field of public-school Education. Hours to be arranged.
- 285 *Seminar: High-School Administration (3)* Powers  
Summer Sessions 1933—daily except Sat., 7.40 a.m., six weeks' term.
- 289-90 *Seminar: Administration of the High-School Subjects of Study (3-3)* Powers  
Tues. and Thurs., 6.10 p.m.
- 291-92 *Thesis (3-3)* The Staff  
Students working on Master's theses will register for this course. First meeting Mon., Oct. 2, at 7.30 p.m., in building D, room 11. Summer Sessions 1933 (3-3)—first meeting Mon., July 10, at 8 p.m., in building D, room 15.
- 293 *Conference on Curriculum (1)* French and Visiting Staff  
Directors of curriculum will present procedures and discuss controversial issues in curriculum making. For graduate students; advanced undergraduates and auditors may register by permission. Summer Sessions 1933—July 3, 5, 6, 7, and 8; 2.10 to 4 and 7.10 to 9 p.m.
- 295 *Conference on the National Survey of Secondary Education (1)* French and Visiting Staff  
For administrators, supervisors, and secondary teachers. For graduate students; advanced undergraduates and auditors may register by permission. Summer Sessions 1933—July 17, 18, 19, 20, and 21; 2.10 to 4 and 7.10 to 9 p.m.
- 296 *Conference on Educational Relations to Socio-economic Problems (1)* French and Visiting Staff  
Presentation of Nation-wide educational issues by directors from American Federation of Labor, United States Office of Education, American Bar Association, and others. For grad-



uate students; advanced undergraduates and auditors may register by permission. Summer Sessions 1933—July 31, Aug. 1, 2, 3, 4, and 5; 2.10 to 4 and 7.10 to 9 p.m.

DEPARTMENT METHODS COURSES

Botany 172, *Teaching of Science.*

History 157, *Teaching of History.*

Home Economics 126x, *Teaching of Home Economics.*

Mathematics 17-18, *Introduction to Statistics.*

Mathematics 104, *Teaching of Secondary-School Mathematics.*

Physical Education for Women 106, *School Health Problems.*

Spanish 176, *Teaching of Romance Languages.*

## ELECTRICAL ENGINEERING

Norman Bruce Ames, B.S., E.E., LL.B., *Professor of Electrical Engineering, Executive Officer.*

Alfred Ennis, M.S. in E.E., *Assistant Professor of Electrical Engineering.*

Minimum requirements for the major: see pages 147-48

### FIRST GROUP

- 9-10 *Elements of Direct and Alternating Currents and Machinery* (3-3) Ames, Ennis

Prerequisite: Mathematics 20; Physics 14 (or concurrent registration for Physics 14). Section A, Mon., Wed., and Fri., 11.10 a.m. Section B, Mon., Wed., and Fri., 5.10 p.m.

- 13-14 *Direct- and Alternating-Current Laboratory* (2-2) Ames, Ennis

For students not majoring in Electrical Engineering. Prerequisite: Electrical Engineering 10. Laboratory fee, \$6 a semester. Section A, Mon., 1.10 p.m. Section B, Fri., 1.10 p.m. Section C, Mon., 7.30 p.m. Section D, Fri., 7.30 p.m.

- 17-18 *Direct-Current Laboratory* (2-2) Ames, Ennis

Prerequisite: Electrical Engineering 9-10. Laboratory fee, \$6 a semester. Section A, Mon., 1.10 p.m. Section B, Fri., 1.10 p.m. Section C, Mon., 7.30 p.m. Section D, Fri., 7.30 p.m.

### SECOND GROUP

- 121-22 *Alternating-Current Machinery* (3-3) Ennis

Prerequisite: Electrical Engineering 10. Section A, Mon., Wed., and Fri., 11.10 a.m. Section B, Mon., Wed., and Fri., 5.10 p.m.

- 123 *Electric Circuits* (3) Ames

Prerequisite: Electrical Engineering 122. Mon., Wed., and Fri., 6.10 p.m.

- 125-26 *Principles of Electric Power Transmission* (2-2) Ennis

Prerequisite: Electrical Engineering 123 (or concurrent registration therefor). Tues. and Thurs., 6.10 p.m.

- 133-34 *Alternating-Current Laboratory* (2-2) Ames, Ennis

Prerequisite: Electrical Engineering 18 and 122. Laboratory fee, \$6 a semester. Section A, Mon., 1.10 p.m. Section B, Fri., 1.10 p.m. Section C, Mon., 7.30 p.m. Section D, Fri., 7.30 p.m.

- 136 *Hydro-electric Engineering* (2) Ames  
Prerequisite: Civil Engineering 133; Electrical Engineering 122. Tues. and Thurs., 5.10 p.m.
- 137 *Electric Traction* (2) Ames  
Prerequisite: Electrical Engineering 122. Tues. and Thurs., 5.10 p.m.
- 140 *Electrical Design* (3) Fnnis  
Prerequisite: Electrical Engineering 122. Drafting-room fee, \$1. Mon. and Fri., 6.10 p.m., and Wed., 7.30 p.m.



## ENGLISH

William Allen Wilbur, A.M., Litt.D., LL.D., *Professor of English.*  
 DeWitt Clinton Croissant, Ph.D., *Professor of English, Executive Officer.*  
 Robert Whitney Bolwell, Ph.D., *Professor of American Literature.*  
 Joseph Quincy Adams, Ph.D., Litt.D., *Professorial Lecturer in English.*  
 Anna Pearl Cooper, A.M., *Associate Professor of English.*  
 Audley Lawrence Smith, A.M., *Assistant Professor of English.*  
 Courtland Darke Baker, A.M., *Assistant Professor of English.*  
 Douglas Bement, A.M., LL.B., *Assistant Professor of English.*  
 Ernest Sewall Shepard, A.M., *Assistant Professor of English.*  
 Martha Gibbon, A.M., *Assistant Professor of English.*  
 Fred Everett Nessell, A.B., *Lecturer in English.*  
 John James Elson, Ph.D., *Instructor in English.*  
 George Winchester Stone, jr., A.M., *Instructor in English.*

Minimum requirements for the major: English 1-2, 51-52, and four additional courses in literature, three of which are selected from 129-30, 139-40, 141-42, 151-52, 161-62, and 171-72.

### FIRST GROUP

- 1-2 *English Rhetoric* (3-3) Wilbur and Staff  
 Section A, Tues., Thurs., and Sat., 10.10 a.m. Section B, Mon.,  
 Wed., and Fri., 6.10 p.m.  
 Summer Sessions 1933 (2-2)—English 1, daily except Sat.,  
 5.10 p.m.; English 2, daily except Sat., 6.10 p.m.; six weeks'  
 term.
- 3-4 *English Grammar and Composition* (3-3) Gibbon  
 A course for foreign students, taken only by assignment of the  
 Adviser to Foreign Students. Tues., Thurs., and Sat., 9.10 a.m.
- 9-10 *English Composition* (3-3) Bement, Gibbon  
 Section A, Tues., Thurs., and Sat., 9.10 a.m. Section B, Tues.,  
 Thurs., and Sat., 11.10 a.m. Section C, Mon., Wed., and Fri.,  
 5.10 p.m.
- 51-52 *Survey of English Literature* (3-3) Smith and Staff  
 Section A, Tues., Thurs., and Sat., 9.10 a.m. Section B, Tues.,  
 Thurs., and Sat., 5.10 p.m.

Summer Sessions 1933 (3-3)—English 51, daily except Sat., 5.10 p.m.; English 52, daily except Sat., 6.10 p.m.; nine weeks' term.

- 91-92 *Types of European Literature* (3-3) Shepard and Staff  
Section A, Tues., Thurs., and Sat., 11.10 a.m. Section B,  
Tues., Thurs., and Sat., 6.10 p.m.

## SECOND GROUP

- †115-16 *The Short Story* (3-3) Bement  
Admission by permission of the instructor after submission of  
a specimen of original composition. Tues., Thurs., and Sat.,  
9.10 a.m.

- 117-18 *Creative Writing* (3-3) Bement  
Admission by permission of the instructor after submission of  
a specimen of original composition. Wed., 8.30 p.m.

- †125-26 *Anglo-Saxon Grammar and Literature* (3-3)  
See German 125-26.

- 127-28 *The Age of Chaucer* (3-3) Stone  
Prerequisite: English 51-52 or 91-92. Tues., Thurs., and Sat.,  
9.10 a.m.

- 129-30 *Renaissance and Elizabethan Literature* (3-3) Cooper  
Prerequisite: English 51-52 or 91-92. Tues., Thurs., and  
Sat., 5.10 p.m.

- 135-36 *Shakespeare* (3-3) Wilbur  
First semester the comedies; second semester the tragedies.  
Prerequisite: English 51-52 or 91-92. Mon., Wed., and Fri.,  
5.10 p.m.

- 138 *Shakespeare* (2) Wilbur  
The Philosophies. Summer Sessions 1933—daily except Sat.,  
4.10 p.m., six weeks' term.

- 139-40 *Seventeenth-Century Literature* (3-3) Baker  
Prerequisite: English 51-52 or 91-92. Mon., Wed., and Fri.,  
10.10 a.m.

- 141-42 *The Neoclassical Movement* (3-3) Croissant  
Prerequisite: English 51-52 or 91-92. Tues., Thurs., and Sat.,  
11.10 a.m.

Summer Sessions 1933 (2)—English 142, daily except Sat.,  
5.10 p.m., six weeks' term.

- 151-52 *The Romantic Movement* (3-3) Smith  
Prerequisite: English 51-52 or 91-92. Tues., Thurs., and Sat.,  
6.10 p.m.

Summer Sessions 1933 (2)—English 152, daily except Sat., 9.40 a.m., six weeks' term.

155 *Wordsworth's "The Prelude"* (3) Wilbur  
Prerequisite: English 51-52 or 91-92. Mon., Wed., and Fri., 10.10 a.m.

161-62 *Victorian Literature* (3-3) Shepard  
Prerequisite: English 51-52 or 91-92. Mon., Wed., and Fri., 5.10 p.m.

164 *Browning's "The Ring and the Book"* (3) Wilbur  
Prerequisite: English 51-52 or 91-92. Mon., Wed., and Fri., 10.10 a.m.

165-66 *Contemporary Literature* (3-3) Baker  
Prerequisite: English 51-52 or 91-92. Mon., Wed., and Fri., 9.10 a.m.

171-72 *Survey of American Literature* (3-3) Bolwell  
Not open to graduate students. Prerequisite: English 51-52. Mon., Wed., and Fri., 6.10 p.m.

175 *The American Drama* (3) Bolwell  
Prerequisite: English 51-52 or 91-92. (Not offered in 1933-34.)

176 *The American Novel* (3) Bolwell  
Prerequisite: English 51-52 or 91-92. (Not offered in 1933-34.)

181-82 *The English Novel* (3-3) Cooper  
Prerequisite: English 51-52 or 91-92. (Not offered in 1933-34.)

183-84 *The English Drama since 1660* (3-3) Croissant  
Prerequisite: English 51-52 or 91-92. Mon., Wed., and Fri., 11.10 a.m.

Summer Sessions 1933 (2)—English 183, daily except Sat., 6.10 p.m., six weeks' term.

### THIRD GROUP

201-2 *Methods and Materials in Elizabethan Research* (3-3) Adams  
Open only to graduate students. Admission by permission of the instructor. Wed., 7.30 p.m.

†229-30 *Seminar: Elizabethan Criticism* (3-3) Cooper  
Prerequisite: English 129-30. Wed., 7.30 p.m.

†239-40 *Studies in Early Seventeenth-Century Literature* (3-3) Baker  
Prerequisite: English 139-40. (Not offered in 1933-34.)

†241-42 *Studies in Neoclassical Literature* (3-3) Croissant  
Prerequisite: English 141 or 142. (Not offered in 1933-34.)



- †251-52 *Studies in the Romantic Movement* (3-3) Smith  
Prerequisite: English 151-52. Mon. evening, hour to be arranged.
- 269-70 *Proseminar: Early American Literature* (3-3) Bolwell  
(Not offered in 1933-34.)  
Summer Sessions 1933 (3)—English 270, daily except Sat., 5.10 p.m., nine weeks' term.
- †271-72 *Studies in American Literature* (3-3) Bolwell  
Prerequisite: English 171-72 or 269-70. Fri. evening, hour to be arranged.

## GEOLOGY

Ray Smith Bassler, Ph.D., *Professor of Geology, Executive Officer.*

Thomas Fredrik Weybye Barth, Ph.D., *Lecturer in Geology.*

Minimum requirements for the major: twenty-four semester-hours above the introductory course.

### FIRST GROUP

- |       |                                                                                                     |         |
|-------|-----------------------------------------------------------------------------------------------------|---------|
| 5     | <i>Field Geology (4)</i>                                                                            | Bassler |
|       | Summer Sessions 1933—daily except Sat., 5.10 to 7 p.m.; field work Sat. afternoon; six weeks' term. |         |
| 21-22 | <i>Physical and Historical Geology (3-3)</i>                                                        | Bassler |
|       | Mon., Wed., and Fri., 6.10 p.m.; field work, hours to be arranged.                                  |         |

### SECOND GROUP

- |         |                                                                                |         |
|---------|--------------------------------------------------------------------------------|---------|
| †121-22 | <i>Paleontology (3-3)</i>                                                      | Bassler |
|         | Mon., 7.10 to 9.30 p.m.; other hours to be arranged.                           |         |
| 123-24  | <i>Regional Geology of North and South America (3-3)</i>                       | Bassler |
|         | Wed., 7.10 to 9.30 p.m.; other hours to be arranged.                           |         |
| 125-26  | <i>Regional Geology of the Eastern Hemisphere (3-3)</i>                        | Bassler |
|         | Wed., 7.10 to 9.30 p.m.; other hours to be arranged. (Not offered in 1933-34.) | (Not    |
| †127-28 | <i>Stratigraphic Geology (3-3)</i>                                             | Bassler |
|         | Mon., 7.10 to 9.30 p.m.; other hours to be arranged. (Not offered in 1933-34.) | (Not    |

### THIRD GROUP

- |        |                                                                     |         |
|--------|---------------------------------------------------------------------|---------|
| 211-12 | <i>Seminar</i>                                                      | Barth   |
|        | Hours and credits to be arranged.                                   |         |
| 215-16 | <i>Seminar</i>                                                      | Bassler |
|        | Hours and credits to be arranged.                                   |         |
|        | Summer Sessions 1933—Geology 215, hours and credits to be arranged. |         |
| 217-18 | <i>Research</i>                                                     | Bassler |
|        | Hours and credits to be arranged.                                   |         |

## GERMANIC LANGUAGES AND LITERATURES

Edward Henry Sehrt, Ph.D., *Professor of German, Executive Officer.*

Arthur Howard Hughes, Ph.D., *Assistant Professor of German.*

Gretchen Louisa Rogers, A.M., *Instructor in German.*

Minimum requirements for the major: twenty-four semester-hours above German 1-2.

### FIRST GROUP

†1-2 *First-Year German* (3-3) Hughes, Rogers

Section A, Mon., Wed., and Fri., 10.10 a.m. Section B, Tues., Thurs., and Sat., 9.10 a.m. Section C, Mon., Wed., and Fri., 5.10 p.m. Section D, Mon., Wed., and Fri., 6.10 p.m. Section E, Mon., Wed., and Fri., 9.10 a.m.

German 1x—same as German 1, but offered second semester. Tues., Thurs., and Sat., 10.10 a.m.

German 2x—same as German 2, but offered first semester. Tues., Thurs., and Sat., 10.10 a.m.

Summer Sessions 1933 (3-3)—daily except Sat., 6.10 to 8 p.m., nine weeks' term (Rogers).

†5-6 *Second-Year German* (3-3) Hughes, Rogers

Prerequisite: German 1-2. Section A, Mon., Wed., and Fri., 11.10 a.m. Section B, Tues., Thurs., and Sat., 5.10 p.m.

Summer Sessions 1933 (3-3)—daily except Sat., 5.10 to 7 p.m., nine weeks' term (Hughes).

†9-10 *Scientific and Technical German* (3-3) Hughes

Prerequisite: German 1-2. Mon., Wed., and Fri., 5.10 p.m.

†17-18 *Readings in Modern German Literature* (3-3) Sehrt

Prerequisite: German 5-6. Mon., Wed., and Fri., 6.10 p.m.

### SECOND GROUP\*

†101-2 *Goethe's "Faust"* (3-3) Sehrt

Hours to be arranged.

109-10 *German Drama since 1800* (3-3) Sehrt

Dramas of Kleist, Grillparzer, Hebbel, and Hauptmann. Mon., Wed., and Fri., 5.10 p.m.

\* Not more than two courses from the second and third groups will be given in 1933-34.



†111-12 *The German Romantic Movement* (3-3) Seht  
Tues., Thurs., and Sat., 5.10 p.m.

†119-20 *Survey of German Literature* (3-3) Seht  
Mon., Wed., and Fri., 5.10 p.m.

†125-26 *Anglo-Saxon Grammar and Literature* (3-3) Seht  
Mon., Wed., and Fri., 4.10 p.m.

## THIRD GROUP\*

†201-2 *Middle High German* (3-3) Seht  
Hours to be arranged.

†205-6 *Gothic* (3-3) Seht  
Hours to be arranged.

†209-10 *Old High German* (3-3) Seht  
Hours to be arranged.

213-14 *Old Norse* (3-3) Seht  
Hours to be arranged.

221 *Introduction to Linguistics* Seht  
Admission by permission of the instructor. Credits to be arranged. Mon., Wed., and Fri., 7.10 p.m.

222 *Indo-European Languages* Doyle, Seht  
Application of the laws of sound change in language; origin and development of suffixes and inflections; syntax. Credits to be arranged. Mon., Wed., and Fri., 7.10 p.m.

223-24 *Sanskrit* (3-3) Seht  
Hours to be arranged.

\*Not more than two courses from the second and third groups will be given in 1933-34

## GRAPHIC ART

Samuel Burtis Baker, *Professorial Lecturer and Critic in Drawing and Painting.*

Eugen Weisz, *Lecturer and Critic in Graphic Art.*

Albert Nelson Davis, *Associate in Graphic Art.*

Minimum requirements for the major: see pages 189-90

### FIRST GROUP

- 1-2 *Antique* (2-2) Davis  
Charcoal drawing. Drawing-room fee, \$3 a semester. Section A, Thurs. and Fri., 1.10 to 4 p.m. Section B, Thurs. and Fri., 7.30 to 10.30 p.m.
- 1-4 *Advanced Antique* (2-2) Davis  
Advanced problems in light and shade. Prerequisite: Graphic Art 2. Drawing-room fee, \$3 a semester. Section A, Thurs. and Fri., 1.10 to 4 p.m. Section B, Thurs. and Fri., 7.30 to 10.30 p.m.
- 5-6 *Pencil and Pen-and-Ink* (1-1) Davis  
Drawing-room fee, \$3 a semester. Section A, Tues., 1.10 to 4 p.m. Section B, Mon., 7.30 to 10.30 p.m.  
Summer Sessions 1933 (2)—daily except Sat., section A, 8.40 to 11 a.m.; section B, 5.10 to 7.40 p.m.; six weeks' term.
- 7-8 *Water Color* (2-2) Weisz  
Still-life and outdoor sketching. Prerequisite: Graphic Art 2. Drawing-room fee, \$3 a semester. Section A, Tues. and Wed., 1.10 to 4 p.m. Section B, Mon. and Wed., 7.30 to 10.30 p.m.  
Summer Sessions 1933 (2-2)—Graphic Art 7 and 8, daily except Sat., section A, 8.40 to 11 a.m.; section B, 5.10 to 7.40 p.m.; six weeks' term (Davis).
- 11-12 *History of Sculpture and Painting* (2-2) Weisz  
Tues. and Thurs., 5.10 p.m.
- 25-26 *Illustration* (3-3) Weisz  
Problems in elementary composition. Drawing-room fee, \$3 a semester. Section A, Tues., Thurs. and Fri., 1.10 to 4 p.m. Section B, Mon., Thurs. and Fri., 7.30 to 10.30 p.m.

27-28 *Illustration* (6-6)

Weisz

Varicolored compositions. Drawing-room fee, \$6 a semester. Section A, daily, 9.10 a.m. to 12. Section B, Graphic Art 27 or 28, Mon., Thurs., and Fri., 7.30 to 10.30 p.m. Students with limited schedules may take Graphic Art 27 and 28 for two semesters each.

## SECOND GROUP

101-2 *Life Class* (2-2)

Baker

Prerequisite: Graphic Art 4. Drawing-room fee, \$3 a semester. Section A, Mon. and Wed., 1.10 to 4 p.m. Section B, Tues. and Wed., 7.30 to 10.30 p.m.

103-4 *Advanced Life Class* (2-2)

Baker

Prerequisite: Graphic Art 102. Drawing-room fee, \$3 a semester. Section A, Mon. and Wed., 1.10 to 4 p.m. Section B, Tues. and Wed., 7.30 to 10.30 p.m.

105 *Advanced Pencil and Pen-and-Ink* (2)

Davis

Prerequisite: Graphic Art 6. Drawing-room fee, \$3. Section A, Tues. and Thurs., 1.10 to 4 p.m. Section B, Mon. and Wed., 7.30 to 10.30 p.m.

Summer Sessions 1933 (2)—daily except Sat., section A, 8.40 to 11 a.m.; section B, 5.10 to 7.40 p.m.; six weeks' term.

108 *Advanced Water Color* (2)

Weisz

Prerequisite: Graphic Art 8. Drawing-room fee, \$3. Section A, Tues. and Thurs., 1.10 to 4 p.m. Section B, Mon. and Wed., 7.30 to 10.30 p.m.

Summer Sessions 1933 (2)—daily except Sat., section A, 8.40 to 11 a.m.; section B, 5.10 to 7.40 p.m.; six weeks' term (Davis).

125-26 *Illustration* (6-6)

Weisz

Book and poster illustration in all mediums. Drawing-room fee, \$6 a semester. Section A, daily, 9.10 a.m. to 12. Section B, Graphic Art 125, Mon., Tues., and Wed., 7.30 to 10.30 p.m.; Graphic Art 126, Mon., Thurs., and Fri., 7.30 to 10.30 p.m. Students with limited schedules may take Graphic Art 125 and 126 for two semesters each.

127-28 *Illustration* (6-6)

Weisz

Advanced problems. Drawing-room fee, \$6 a semester. Section A, daily, 9.10 a.m. to 12. Section B, Graphic Art 127 or 128, Mon., Thurs., and Fri., 7.30 to 10.30 p.m. Students with limited schedules may take Graphic Art 127 and 128 for two semesters each.



- 130 *Sketching in Oil (2)* Davis  
Summer Sessions 1933—daily except Sat., section A, 8.40 to 11 a.m.; section B, 5.10 to 7.40 p.m.; six weeks' term.
- 131-32 *Still-Life Painting (2-2)* Baker  
Prerequisite: Graphic Art 8. Drawing-room fee, \$3 a semester.  
Section A, Mon. and Wed., 1.10 to 4 p.m. Section B, Tues. and Wed., 7.30 to 10.30 p.m.
- 133-34 *Life Painting (2-2)* Baker  
Prerequisite: Graphic Art 102. Drawing-room fee, \$3 a semester.  
Section A, Mon. and Wed., 1.10 to 4 p.m. Section B, Tues. and Wed., 7.30 to 10.30 p.m.
- 185-86 *Advanced Painting and Composition* The Staff  
Hours and credits to be arranged.

## HEALTH ADMINISTRATION

Daniel LeRay Borden, A.M., M.D., *University Surgeon, Director.*

Frank Adelbert Hornaday, M.S., M.D., *University Physician.*

Harry Arnold Hull McNitt, A.M., M.D., *Associate University Physician.*

Robert Howe Harmon, A.B., M.D., *Associate University Physician.*

Katharine Antoinette Chapman, A.B., M.D., *Associate University Physician.*

Francis George Speidel, M.D., *Associate University Physician.*

Jeter Carroll Bradley, M.D., *Associate University Physician.*

The payment of the University fee entitles students to health services herein after described. Through reports from the students and University officials, the University attempts to keep informed as to all cases of illness among its students.

Medical privileges include: (1) the physical examination of all students entering from secondary schools; (2) three visits by the University physician or surgeon, office or home, in any one illness, exclusive of a specialist, surgical operation, laboratory, or X-ray examination; (3) hospitalization, including board, medicine, and nursing in the University Hospital for not more than two weeks during a school term—the necessity to be determined by the Director of Health Administration. The duration of hospitalization period (maximum, two weeks) is also to be determined by the Director of Health Administration.

This medical benefit does not include treatment for illness or disability incurred previous to the University term or prior to payment of the University registration fee.

Students are allowed, if they so desire, to engage physicians and nurses of their own choice, but when they do so they will be responsible for the fees charged.

Rules: (1) The Director of Health Administration is empowered to limit or deny the medical benefits where, in his discretion, a student has, by his misconduct or breach of the rules of the University, made himself ineligible; (2) the Director of Health Administration has authority to determine the necessity and length of hospitalization; (3) students who have severed their connection with the University are ineligible for medical benefits; (4) students intending to join for athletic teams are required to pass a careful examination at the beginning of each semester; (5) the above regulations apply during the Summer Sessions of the University.

### 1-2 Personal Hygiene

Purse, Atwell  
A course for women, designed to place before each student the ideal of a well-balanced program for daily living, based on the general physiological laws of personal hygiene. See Physical Education for Women 1-2. Section A, Monday, 2.30 p.m. Section B, Tuesday, 2.30 p.m. Section C, Thursday, 9.10 a.m.

## HISTORY

George Morton Churchill, Ph.D., *Professor of History.*

Samuel Flagg Bemis, Ph.D., *Professor of History, Executive Officer.*

Elmer Louis Kayser, Ph.D., *Professor of History.*

Alva Curtis Wilgus, Ph.D., *Associate Professor of History.*

\*Lowell Joseph Ragatz, Ph.D., *Associate Professor of History.*

Minimum requirements for the major: History 23-24, 37-38, 41-42 (in this sequence, if possible), and two second- or third-group courses, one of which must be a proseminar.

### FIRST GROUP

23-24 *Civilization of the Ancient World and Middle Ages* (3-3) Kayser  
Section A, Tues., Thurs., and Sat., 9.10 a.m. Section B, Tues.,  
Thurs., and Sat., 5.10 p.m.

Summer Sessions 1933 (3)—History 23, daily except Sat.,  
6.10 p.m., nine weeks' term.

37-38 *Modern European History* (3-3) Wilgus, Kayser  
Primarily for first-year students. Section A, Mon., Wed.,  
and Fri., 9.10 a.m. Section B, Mon., Wed., and Fri., 5.10 p.m.  
Summer Sessions 1933 (3)—History 37, daily except Sat.,  
5.10 p.m., nine weeks' term (Ragatz).

41-42 *History of the United States, Including Its Colonial Background*  
(3-3) Bemis  
Section A, Mon., Wed., and Fri., 9.10 a.m. Section B, Mon.,  
Wed., and Fri., 5.10 p.m.

Summer Sessions 1933 (3)—History 41, daily except Sat.,  
7.40 a.m., nine weeks' term (Wilgus)

### SECOND GROUP

101-2 *American Constitutional History* (3-3) Churchill  
Advised for prelegal students. Prerequisite: History 41-42.  
(Not offered in 1933-34.)

103-4 *History of the West* (3-3) Churchill  
(Not offered in 1933-34.)

†105-6 *History of the Foreign Relations of the United States* (3-3) Bemis  
Prerequisite: History 41-42. Mon., Wed., and Fri., 7.45 a.m.

\* On sabbatical leave 1933-34.



- 139 *The Civilization of the Later Middle Ages* (3) Kayser  
Prerequisite: History 24. (Not offered in 1933-34.)
- 140 *Intellectual Aspects of the Renaissance and Reformation* (3) Kayser  
Prerequisite: History 24 or 37. (Not offered in 1933-34.)
- 141 *History of Modern Colonization* (3) Ragatz  
Prerequisite: History 37-38. (Not offered in 1933-34.)
- 143 *Modern Imperialism* (3) Ragatz  
Prerequisite: History 37-38. (Not offered in 1933-34.)
- 144 *Economic History of Modern Europe* (3) Ragatz  
Prerequisite: History 37-38. (Not offered in 1933-34.)
- 145 *Intellectual Aspects of the Renaissance* (2) Kayser  
Prerequisite: History 24. Summer Sessions 1933—daily except Sat., 6.10 p.m., six weeks' term.
- 147-48 *Europe since 1815* (3-3) Ragatz  
Prerequisite: History 37-38. (Not offered in 1933-34.)
- 150 *The World War and Its Aftermath* (3) Ragatz  
Prerequisite: History 37-38. (Not offered in 1933-34.)
- 151-52 *Survey of English History* (3-3) Churchill  
Section A, Tues., Thurs., and Sat., 10.10 a.m. Section B,  
Mon., Wed., and Fri., 5.10 p.m.
- 153-54 *English Constitutional History* (3-3) Churchill  
Mon., Wed., and Fri., 6.10 p.m.
- 155-56 *The Rise of Nationalism* (3-3) Kayser  
Prerequisite: History 37-38. (Not offered in 1933-34.)  
Summer Sessions 1933 (2)—daily except Sat., 5.10 p.m., six weeks' term.
- 157 *Teaching of History* (2) Wilgus  
Summer Sessions 1933—daily except Sat., 8.40 a.m., six weeks' term.
- 160 *The History of Modern France* (3) Ragatz  
Prerequisite: History 37-38. (Not offered in 1933-34.)
- 163 *The French Revolution and the Napoleonic Era* (3) Ragatz  
Prerequisite: History 37-38. (Not offered in 1933-34.)
- 175-76 *Hispanic-American History* (3-3) Wilgus  
Prerequisite: History 37-38 or 41-42. Tues., Thurs., and Sat.,  
5.10 p.m.
- 177 *The Great States of Hispanic America* (3) Wilgus  
Prerequisite: History 37-38, 41-42, or 175-76. Mon., Wed.,  
and Fri., 10.10 a.m.

178 *The Pan American Movement* (3)

Wilgus

Prerequisite: History 37-38, 41-42, 175-76, or 177. Mon., Wed., and Fri., 9.10 a.m.

197-98 *Seminar-Conference: Hispanic-American Affairs* (4)

Wilgus and Visiting Staff

Summer Sessions 1933—daily except Sat., 9.40 to 11.30 a.m., six weeks' term.

## THIRD GROUP

†201-2 *Proseminar: History and Historians* (3-3)

Churchill

(Not offered in 1933-34.)

†203-4 *Proseminar: American History* (3-3)

Bemis

Prerequisite: History 41-42 and a reading knowledge of one foreign language. Fri., 8.10 p.m.

†205-6 *Proseminar: Medieval History* (3-3)

Kayser

Prerequisite: History 23-24 and a reading knowledge of one foreign language. Wed., 8.10 p.m.

†207-8 *Proseminar: English History* (3-3)

Churchill

Prerequisite: History 37-38 or 151-52, and a reading knowledge of one foreign language. Mon., 7.45 p.m.

†209-10 *Proseminar: Hispanic-American History* (3-3)

Wilgus

Prerequisite: History 175-76 and a reading knowledge of at least one modern foreign language, preferably Spanish. Tues., 6.30 p.m.

†211-12 *Proseminar: Modern European History* (3-3)

Ragatz

Prerequisite: History 37-38 and a reading knowledge of one modern foreign language. Wed., 8.10 p.m. (Not offered in 1933-34.)

Summer Sessions 1933 (3)—History 211, Tues. and Thurs., 8.10 to 10 p.m., nine weeks' term.

†219-20 *Seminar: Hispanic-American History* (3-3)

Wilgus

Prerequisite: History 175-76 and a reading knowledge of Spanish or Portuguese. French is also desirable. (Not offered in 1933-34.)

†221-22 *Seminar: Diplomatic History of the United States* (3-3)

Bemis

A reading knowledge of French is necessary, and of Spanish and German desirable. Hours to be arranged.

## HOME ECONOMICS

Frances Kirkpatrick, A.M., *Associate Professor of Home Economics*  
*Executive Officer.*

Kathryn Mildred Towne, A.M., *Assistant Professor of Home Economics*

Gladys Christine Haldeman, B.S., *Associate in Home Economics.*

Minimum requirements for the major: see pages 164-65

### FIRST GROUP

- 1 *Food Selection* (3) Haldeman  
 The composition and nutrition value of food. Mon., Wed., and  
 Fri., 5.10 p.m.  
 Home Economics 1x—same as Home Economics 1, but offered  
 second semester. Mon., Wed., and Fri., 9.10 a.m.
- 3 *Food Preparation* (3) Haldeman  
 Prerequisite: Home Economics 1 (or concurrent registration  
 therefor). Material fee, \$9. Tues. and Thurs., 5.10 to 8 p.m.  
 Home Economics 3x—same as Home Economics 3, but offered  
 second semester. Section A, Mon. and Wed., 1.10 to 4 p.m.  
 Section B, Tues. and Thurs., 1.10 to 4 p.m.
- 21 *Clothing Selection* (3) Towne  
 The principles of art, hygiene, and design. Mon., Wed., and  
 Fri., 9.10 a.m.  
 Home Economics 21x—same as Home Economics 21, but  
 offered second semester. Mon., Wed., and Fri., 5.10 p.m.
- 23 *Clothing Construction* (3) Towne  
 Prerequisite: Home Economics 21 (or concurrent registration  
 therefor). Material fee, \$3. Mon. and Wed., 1.10 to 4 p.m.  
 Home Economics 23x—same as Home Economics 23, but  
 offered second semester. Tues. and Thurs., 5.10 to 8 p.m.
- 51 *Food Problems of the Household* (3) Haldeman  
 Planning of family meals at different economic levels; canning,  
 food budgets, and marketing. Material fee, \$3. Mon. and  
 Wed., 11.10 a.m.; laboratory Fri., 11.10 a.m. to 1 p.m.
- 72 *Textiles* (3) Towne  
 Material fee, \$3. Mon. and Wed., 11.10 a.m.; laboratory Fri.,  
 11.10 a.m. to 1 p.m.



- 91 *Home Relationships* (3) Kirkpatrick  
Mon., Wed., and Fri., 5.10 p.m.

## SECOND GROUP

- 101 *Experimental Cookery* (3) Kirkpatrick  
Prerequisite: Chemistry 1-2 or 2-21; Home Economics 1 and 3.  
Material fee, \$9. Tues. and Thurs., 9.10 a.m. to 12.
- 102 *Quantity Cookery* (3) Kirkpatrick  
The management and serving of foods in quantity under different conditions and for various purposes. Prerequisite: Home Economics 101. Material fee, \$9. Tues. and Thurs., 9.10 a.m. to 12.
- 103-4 *Special Problems in Food Preparation* (2-2) The Staff  
A limited number of students will work on special problems in laboratories of the Bureau of Home Economics. Hours to be arranged.
- 121 *Costume Design* (3) Towne  
Art principles applies to dress; application of corrective measures. Material fee, \$3. Mon., 11.10 a.m.; laboratory Wed. and Fri., 11.10 a.m. to 1 p.m.
- 126x *Teaching of Home Economics* (3) Towne  
Offered first semester. Mon., Wed., and Fri., 5.10 p.m.
- 140 *Advanced Dress Design and Construction* (3) Towne  
Designing and draping costumes on forms. Prerequisite: Home Economics 121. Material fee, \$3. Section A, Mon. and Wed., 1.10 to 4 p.m. Section B, Mon. and Wed., 6.10 to 9 p.m.
- 151 *Advanced Nutrition* (3) Kirkpatrick  
Prerequisite: Biochemistry 54; Chemistry 1-2 or 2-21, and 41; Home Economics 1 and 3. Mon., Wed., and Fri., 11.10 a.m.
- 152 *Dietetics* (3) Kirkpatrick  
Dietetic food charts; normal and special diets. Prerequisite: Home Economics 151. Material fee, \$3. Mon. and Wed., 11.10 a.m.; laboratory Fri., 11.10 a.m. to 1 p.m.
- 160 *Special Problems in Clothing and Textiles* (3) Towne  
Prerequisite: Home Economics 21, 23, 72, and 121. Material fee, \$3. Tues. and Thurs., 9.10 a.m. to 12. (Not offered in 1933-34.)
- 171 *House Furnishing* (3) Towne  
Material fee, \$3. Tues. and Thurs., 1.10 to 4 p.m.

180 *Child Nutrition* (3)

Kirkpatrick

Prerequisite: Home Economics 151. Material fee, \$3. Mon. and Wed., 4.10 p.m.; laboratory Fri., hours to be arranged.

192 *Home Management* (3)

Kirkpatrick

Management of time, income, and equipment in the home. Mon., Wed., and Fri., 5.10 p.m.

## THIRD GROUP

201-2 *Research Problems* Staff of the Bureau of Home Economics  
Research problems in food preparation and utilization. Hours and credits to be arranged.

203-4 *Research Problems* Staff of the Bureau of Home Economics  
Research problems in food economics. Hours and credits to be arranged.

211-12 *Research in Nutrition* Staff of the Bureau of Home Economics  
Problems related to the feeding of preschool children, or problems involving animal feeding. Hours and credits to be arranged.

219 *Seminar* (3)

The Staff

Review of the recent work in food and nutrition. Wed., 7.10 to 9 p.m.

220 *Seminar* (3)

Towne

Review of the recent work in clothing and textiles. Tues., 4.10 to 6 p.m.

221-22 *Research Problems* Staff of the Bureau of Home Economics  
Research problems in textile and clothing construction. Hours and credits to be arranged.

223 *Seminar in Home-Economics Education* (3)

Given by the staff of the Home-Economics Education Service of the Federal Board for Vocational Education. Hours to be arranged.

## LAW

- Walter Collins Clephane, LL.M., LL.D., *Professor of Law.*  
 Edwin Charles Brandenburg, LL.M., *Professor of Law.*  
 John Wilmer Latimer, LL.B., *Professor of Law.*  
 William Cabell Van Vleck, A.B., LL.B., S.J.D., *Professor of Law, Executive Officer.*  
 Charles Sager Collier, A.B., LL.B., S.J.D., *Professor of Law.*  
 \*Hector Galloway Spaulding, B.S., LL.B., S.J.D., *Professor of Law.*  
 Walter Lewis Moll, A.B., LL.B., S.J.D., *Professor of Law.*  
 Joseph Winston Cox, LL.B., *Professorial Lecturer in Law.*  
 Loyd Hall Sutton, B.S., LL.B., *Associate Professor of Law.*  
 William Armstrong Hunter, A.B., LL.M., *Associate Professor of Law.*  
 William Thomas Fryer, A.B., LL.B., J.D., *Associate Professor of Law.*  
 Saul Chesterfield Oppenheim, A.M., J.D., S.J.D., *Associate Professor of Law.*  
 Carville Dickinson Benson, jr., A.B., LL.B., S.J.D., *Associate Professor of Law.*  
 James Forrester Davison, A.B., LL.M., S.J.D., *Assistant Professor of Law.*  
 John Albert McIntire, A.B., LL.B., *Assistant Professor of Law.*  
 Levi Russell Alden, A.M., LL.B., *Lecturer in Law.*  
 Gilbert Lewis Hall, A.B., LL.B., *Lecturer in Law.*  
 Clarence Altha Miller, LL.M., *Lecturer in Law.*  
 Ralph Hoskins Hudson, Graduate U. S. Naval Academy, LL.B., *Lecturer in Law.*  
 James Oliver Murdock, Ph.B., LL.B., *Lecturer in Law.*  
 Frederick Charles O'Connell, LL.M., *Associate in Law and Clerk of the Moot Court.*

## MOOT COURT OF APPEALS

- Leon Tobriner, LL.B., *Chief Justice.*  
 Brainard Warner Parker, LL.B., *Associate Justice.*  
 George Francis Williams, LL.M., *Associate Justice.*

Minimum requirements for the degrees: see page 141

\* On sabbatical leave first semester 1933-34.



## FIRST-YEAR SUBJECTS

- 101-2 *Civil Procedure* (2-2) Clephane, Hunter  
 Section A (Sunderland's Cases, 2d ed.; Keigwin's Cases on Equity Pleading), first semester, Mon. and Thurs., 12.10 p.m.; second semester, Mon. and Fri., 12.10 p.m. Section B (Shipman on Common Law Pleading; Clephane on Equity Pleading), Tues., 5.10 and 6.10 p.m.
- 111-12 *Contracts* (4-3) Spaulding, Moll, McIntire  
 Williston's Cases on Contracts, 3d ed. Section A, first semester, Mon., 10.10 a.m., and Tues., Wed., and Fri., 9.10 a.m.; second semester, Mon., Thurs., and Fri., 10.10 a.m. Section B, first semester, Mon. and Thurs., 5.10 and 6.10 p.m.; second semester, Mon., 5.10 p.m., and Thurs., 5.10 and 6.10 p.m. Special, second semester, Tues. and Wed., 5.10 and 6.10 p.m.
- 124 *Criminal Law and Procedure* (3) Hunter  
 Mikell's Cases on Criminal Law and Procedure. Section A, Mon., Wed., and Fri., 9.10 a.m. Section B, Mon., 6.10 p.m., and Fri., 5.10 and 6.10 p.m.
- 133-34 *Personal Property* (2-2) Fryer, Benson  
 Bigelow's Cases on Personal Property, 2d ed., 1931; materials on the study of law; remedies and the term "property"; Erver's Readings on Personal Property. Section A, first semester, Tues., 11.10 a.m., and Fri., 10.10 a.m.; second semester, Tues. and Thurs., 9.10 a.m. Section B, Tues., 5.10 and 6.10 p.m.  
 Summer Sessions 1933 (4)—daily except Sat., 5.10 and 6.10 p.m., first term (Benson).
- 137-38 *Real Property I* (2-2) Benson  
 Fraser's Cases on Property, vol. I. Section A, first semester, Wed. and Thurs., 11.10 a.m.; second semester, Tues. and Wed., 11.10 a.m. Section B, Wed., 5.10 and 6.10 p.m.
- 141-42 *Torts* (4-2) Collier, Hunter  
 Beale's edition of Ames and Smith's Cases; Bohlen's Cases, 3d ed. Section A, first semester, Mon. and Thurs., 9.10 a.m., and Tues. and Fri., 12.10 p.m.; second semester, Tues. and Thurs., 12.10 p.m. Section B, first semester, Wed. and Fri., 5.10 and 6.10 p.m.; second semester, Wed., 5.10 and 6.10 p.m.  
 Summer Sessions 1933 (4)—daily except Sat., 5.10 and 6.10 p.m., second term (Collier).

## SECOND-YEAR SUBJECTS

- 151 *Agency* (4) Fryer  
 Mechem's Cases on Agency, 2d ed., by Seavey. Mon., 11.10 a.m., Wed., 9.10 a.m., and Thurs. and Fri., 12.10 p.m.

Summer Sessions 1933 (4)—daily except Sat., 5.10 and 6.10 p.m., second term.

163-64 *Bills and Notes* (2-2)

Oppenheim

Britton's Cases on Bills and Notes, 2d ed. Section A, first semester, Mon. and Tues., 12.10 p.m.; second semester, Mon. and Fri., 12.10 p.m. Section B, Mon., 5.10 and 6.10 p.m.

Summer Sessions 1933 (4)—daily except Sat., 5.10 and 6.10 p.m., first term.

170 *Domestic Relations* (2)

Hunter

Madden's Cases on Domestic Relations. Summer Sessions 1933—Mon. and Thurs., 5.10 and 6.10 p.m., and Wed., 6.10 p.m., first term.

171-72 *Equity II* (2-2)

Spaulding, Moll

Ames' Cases on Equity Jurisprudence, vol. 1. Section A, second semester, Mon. and Wed., 11.10 a.m., and Tues. and Thurs., 12.10 p.m. Section B, Fri., 5.10 and 6.10 p.m.

177-78 *Evidence* (2-2)

Latimer, Fryer

Hinton's Cases on Evidence, 2d ed., 1931. Section A, Mon. and Thurs., 9.10 a.m. Section B, Mon., 5.10 and 6.10 p.m.

185 *Quasi-contracts* (2)

Van Vleck

Thurston's Cases on Quasi-contracts. Summer Sessions 1933—Tues. and Fri., 5.10 and 6.10 p.m., and Wed., 5.10 p.m., first term.

187-88 *Real Property II* (2-2)

Benson

Kirkwood's Cases on Conveyances; Mechem and Atkinson's Cases on Wills and Administration. Section A, first semester, Tues. and Fri., 9.10 a.m.; second semester, Tues. and Thurs., 9.10 a.m. Section B, Thurs., 5.10 and 6.10 p.m.

191-92 *Sales* (2-2)

Oppenheim

Williston and McCurdy's Cases, 1932. Section A, first semester, Tues., 10.10 a.m., and Thurs., 11.10 a.m.; second semester, Tues., 11.10 a.m., and Fri., 9.10 a.m. Section B, Thurs., 5.10 and 6.10 p.m.

THIRD-YEAR SUBJECTS

204 *Bankruptcy* (2)

Brandenburg

The Bankruptcy Act. Tues., 5.10 and 6.10 p.m.

205-6 *Conflict of Laws* (2-2)

Van Vleck

Beale's Cases, 2d ed. Section A, Mon. and Tues., 10.10 a.m. Section B, Tues., 5.10 and 6.10 p.m.

- 209-10 *Constitutional Law* (2-2) Collier  
Hall's Cases on Constitutional Law. Section A, first semester, Wed., 11.10 a.m., and Fri., 10.10 a.m.; second semester, Thurs. and Fri., 10.10 a.m. Section B, Tues., 5.10 and 6.10 p.m.
- 213-14 *Corporations* (2-2) Davison  
Section A, first semester, Mon., 11.10 a.m., and Thurs., 10.10 a.m.; second semester, Mon. and Fri., 11.10 a.m. Section B, Fri., 5.10 and 6.10 p.m.  
Summer Sessions 1933 (4)—daily except Sat., 5.10 and 6.10 p.m., second term.
- 215-16 *Current Decisions and Legislation* (2-2) McIntire  
Required of members of the student editorial board of *The George Washington Law Review*. Hours to be arranged.
- 217 *Equity III* (2) Hunter  
(Not offered in 1933-34.)  
Summer Sessions 1933 (2)—daily except Mon., 7.40 a.m., first term.
- 219 *Federal Procedure* (2) Brandenburg  
Hopkins' Judicial Code, 3d ed. Tues., 5.10 and 6.10 p.m.
- 221 *Insurance* (2) McIntire  
Case book to be announced. Fri., 5.10 and 6.10 p.m.
- 223 *Legal Bibliography and Briefmaking* (1) Miller  
Mon., 6.10 p.m.
- 225-26 *Moot Court* (2-2) Clephane, Cox, Hall, Hunter  
Prerequisite: Law 101-2 and 177-78. Section A, Sat., 9.10 to 11 a.m. Section B, Wed., 5.10 and 6.10 p.m.
- 228 *Mortgages* (2) Benson  
Case book to be announced. Fri., 5.10 and 6.10 p.m.
- 230 *Municipal Corporations* (2) McIntire  
Case book to be announced. Mon., 5.10 and 6.10 p.m.
- 231 *Organization of Corporations* (1) Clephane  
Clephane on Organization and Management of Corporations. Mon., 5.10 p.m.
- 233 *Partnership* (2) Davison  
Crane and McGruder's Cases, shorter selection, 1930. Section A, Wed., 10.10 a.m., and Fri., 11.10 a.m. Section B, Thurs., 5.10 and 6.10 p.m.
- 235-36 *Patent Moot Court* (2-2) Hudson  
This course may be elected instead of Law 225-26 to satisfy



the Moot Court requirement. Both subjects may not be counted toward a degree. Wed., 5.10 and 6.10 p.m.

237-38 *Patent Law* (2-2) Sutton  
Substantive patent law and patent-office practice. Mon., 5.10 and 6.10 p.m.

240 *Real Property III* (2) Moll  
Wed., 5.10 and 6.10 p.m.

242 *Suretyship* (2) Frver  
Campbell's Cases. Fri., 5.10 and 6.10 p.m. (Not offered in 1933-34.)

245-46 *Trusts* (2-2) Moll  
Section A, first semester, Tues. and Thurs., 11.10 a.m.; second semester, Tues. and Wed., 11.10 a.m. Section B, Thurs., 5.10 and 6.10 p.m.

## GRADUATE SUBJECTS

252 *Administrative Law* (2) Davison  
Frankfurter and Davison's Cases on Administrative Law. Section A, Wed., 10.10 a.m., and Thurs., 11.10 a.m. Section B, Thurs., 5.10 and 6.10 p.m.

253 *Admiralty* (2) Alden  
Sayre's Cases on Admiralty. Wed., 5.10 and 6.10 p.m.

255-56 *History of Law* (2-2) Benson  
Plucknett, *A Concise History of the Common Law*; Benson, *History of English Law Notebook*. Mon., 5.10 and 6.10 p.m.

257-58 *International Law* (2-2) Murdock  
Hudson's Cases on International Law. Thurs., 5.10 and 6.10 p.m.

260 *Interstate Commerce Law* (2) Davison  
Sharfman, *Interstate Commerce Commission*, vol. 1, and assigned cases. Mon., 5.10 and 6.10 p.m.

261 *Labor Law* (2) Spaulding  
(Not offered in 1933-34.)

263 *Public Utilities* (2) Davison  
Welch, et al., Cases on Public-Utility Regulation. Mon., 5.10 and 6.10 p.m.

265-66 *Taxation* (2-2) Collier  
Magill and Maguire's Cases. Fri., 5.10 and 6.10 p.m.

269-70 *Trade Regulation* (2-2) Oppenheim  
Wed., 5.10 and 6.10 p.m.

## LIBRARY SCIENCE

Alfred Francis William Schmidt, A.M., *Professor of Library Science, Executive Officer.*

George Franklin Bowerman, A.B., B.L.S., L.H.D., *Professorial Lecturer in Library Science.*

Charles Martel, *Professorial Lecturer in Library Science.*

Elizabeth Adams Lathrop, A.B., *Assistant Professor of Library Science.*

Ernest Kletsch, *Lecturer in Library Science.*

Adelaide Hasse, *Lecturer in Library Science.*

Minimum requirements for the major: see page 183

### SECOND GROUP

**101-2 Cataloguing (2-2)**

Library of Congress rules. Material fee, \$1 a semester. Section A, Tues. and Thurs., 10.10 a.m. to 12. Section B, Tues. and Thurs., 6.10 to 8 p.m. Lathrop  
Section

Summer Sessions 1933 (4)—daily except Sat., 5.10 to 7 p.m., six weeks' term.

**121-22 Classification (3-3)**

Dewey, Cutter, and Library of Congress systems. Mon., 6.10 p.m., and Wed., 6.10 to 8 p.m. Schmidt  
Mon.

**131-32 Library History (2-2)**

Mon. and Wed., 5.10 p.m. Schmidt

**141 Reference (2)**

Prerequisite: Library Science 101-2 and 121-22 or the equivalent in library experience. Fri., 5.10 to 7 p.m. Schmidt

**142 Bibliography (2)**

Prerequisite: Library Science 141 or the equivalent in library experience. Fri., 5.10 to 7 p.m. Schmidt

**151-52 Children's Literature (2-2)**

Tues. and Thurs., 9.10 a.m. Lathrop

Summer Sessions 1933 (2)—daily except Sat., 7.40 a.m., six weeks' term.

**161-62 Library Economy (2-2)**

Ordering, accessioning, inventory, withdrawals, shelving, filing, mending, and binding. Tues. and Thurs., 5.10 p.m. Lathrop

Summer Sessions 1933 (2)—daily except Sat., 7.10 p.m.,  
six weeks' term.

- 171-72 *Book Evaluation and Selection* (2-2) Lathrop  
Material fee, \$1 a semester. Tues. and Thurs., 9.10 a.m. (Not  
offered in 1933-34.)
- 181-82 *Library Administration and Organization* (2-2) Lathrop  
Material fee, \$1 a semester. Tues. and Thurs., 5.10 p.m. (Not  
offered in 1933-34.)
- 191-92 *Public Documents* (2-2) Hasse  
Fri., 7.10 to 9 p.m.

## THIRD GROUP

- 211-12 *Special Libraries* (3-3) Hasse  
Hours to be arranged.
- 221-22 *Special Public-Library Problems* (3-3) Bowerman and Staff  
Hours to be arranged.
- 231-32 *Seminar* (3-3) Martel and Staff  
Hours to be arranged.
- 245-46 *Seminar* (3-3) Kletsch  
The history of the book; paleography. Library of Congress,  
Tues., 7.30 to 9.30 p.m.



## MATHEMATICS

James Henry Taylor, Ph.D., *Professor of Mathematics, Executive Officer*  
 Frank Mark Weida, Ph.D., *Associate Professor of Mathematics.*  
 Francis Edgar Johnston, Ph.D., *Associate Professor of Mathematics.*  
 Florence Marie Mears, Ph.D., *Assistant Professor of Mathematics.*  
 Edgar William Woolard, Ph.D., *Assistant Professor of Mathematics.*

Minimum requirements for the major: fifteen semester-hours above Calculus

### FIRST GROUP

#### 3 *College Algebra* (3)

The Staff

For students presenting less than two entrance units in Algebra.  
 Section A, Mon., Wed., and Fri., 10.10 a.m. Section B, Mon.,  
 Wed., and Fri., 11.10 a.m. Section C, Mon., Wed., and Fri.,  
 6.10 p.m.

Mathematics 3x—same as Mathematics 3, but offered second  
 semester. Section A, Mon., Wed., and Fri., 11.10 a.m. Section  
 B, Tues., Thurs., and Sat., 6.10 p.m.

#### 6 *Plane Trigonometry* (3)

The Staff

For students not offering Trigonometry for entrance. Pre-  
 requisite: Mathematics 3 (or concurrent registration therefor)  
 Section A, Mon., Wed., and Fri., 11.10 a.m. Section B, Mon.,  
 Wed., and Fri., 6.10 p.m.

Mathematics 6x—same as Mathematics 6, but offered first  
 semester. Section A, Mon., Wed., and Fri., 11.10 a.m. Sec-  
 tion B, Mon., Wed., and Fri., 5.10 p.m.

#### 9x *Mathematics of Investment* (3)

Weida

Offered second semester. Mon., Wed., and Fri., 11.10 a.m.

#### 10 *Mathematics of Life Insurance* (3)

Prerequisite: Mathematics 9x. (Not offered in 1933-34.)

#### 12 *Plane Analytic Geometry* (3)

The Staff

Prerequisite: Mathematics 3 and 6. Section A, Mon., Wed., and  
 Fri., 11.10 a.m. Section B, Mon., Wed., and Fri., 5.10 p.m.

Mathematics 12x—same as Mathematics 12, but offered  
 first semester. Section A, Mon., Wed., and Fri., 10.10 a.m.  
 Section B, Mon., Wed., and Fri., 11.10 a.m. Section C, Mon.,  
 Wed., and Fri., 6.10 p.m. Section D, Tues., Thurs., and Sat.,  
 5.10 p.m.

Summer Sessions 1933 (3)—daily except Sat., 6.10 p.m., nine weeks' term (Woolard).

- 17-18 *Introduction to Statistics* (3-3)  
Mon., Wed., and Fri., 5.10 p.m.

Weida

- 19 *Differential Calculus* (3)

The Staff

Prerequisite: Mathematics 12. Section A, Mon., Wed., and Fri., 10.10 a.m. Section B, Mon., Wed., and Fri., 5.10 p.m. Section C, Tues., Thurs., and Sat., 5.10 p.m.

Mathematics 19x—same as Mathematics 19, but offered second semester. Section A, Mon., Wed., and Fri., 10.10 a.m. Section B, Mon., Wed., and Fri., 11.10 a.m. Section C, Mon., Wed., and Fri., 6.10 p.m.

Summer Sessions 1933 (3)—daily except Sat., 5.10 p.m., nine weeks' term (Woolard).

- 20 *Integral Calculus* (3)

The Staff

Prerequisite: Mathematics 19. Section A, Mon., Wed., and Fri., 10.10 a.m. Section B, Mon., Wed., and Fri., 5.10 p.m. Section C, Tues., Thurs., and Sat., 5.10 p.m.

Mathematics 20x—same as Mathematics 20, but offered first semester. Section A, Mon., Wed., and Fri., 10.10 a.m. Section B, Tues., Thurs., and Sat., 5.10 p.m.

Summer Sessions 1933 (3)—daily except Sat., 6.10 p.m., nine weeks' term (Johnston).

## SECOND GROUP

- 101 *Fundamental Concepts of Mathematics* (3)

Woolard

Prerequisite: Mathematics 20. Tues., Thurs., and Sat., 5.10 p.m.

- 104 *Teaching of Secondary-School Mathematics* (3)

Weida

Prerequisite: Mathematics 20. Tues., Thurs., and Sat., 5.10 p.m.

- 117 *Method of Least Squares and Theories of Error* (3)

Prerequisite: Mathematics 20. (Not offered in 1933-34.)

- 119 *Curve Fitting* (3)

Prerequisite: Mathematics 20. (Not offered in 1933-34.)

- 121 *Intermediate Mathematical Statistics* (3)

Weida

Statistical methodology, with applications to various fields, and its use as a basis for the economic control of manufactured products. Prerequisite: Mathematics 20. Tues., Thurs., and Sat., 5.10 p.m.

- 123 *Theory of Equations* (3) Johnston  
Prerequisite: Mathematics 20. Mon., Wed., and Fri., 10.10 a.m.
- 124 *Advanced Algebra* (3) Johnston  
Prerequisite: Mathematics 20. Summer Sessions 1933—daily except Sat., 5.10 p.m., nine weeks' term.
- 128 *Solid Analytic Geometry* (3) Taylor  
Prerequisite: Mathematics 20. Mon., Wed., and Fri., 10.10 a.m.
- 131 *Differential Equations* (3) Woolard  
Prerequisite: Mathematics 20. Mon., Wed., and Fri., 5.10 p.m.
- 137x *Advanced Calculus* (3) Woolard  
Offered second semester. Prerequisite: Mathematics 20. Mon., Wed., and Fri., 6.10 p.m.
- 139 *Projective Geometry* (3)  
Prerequisite: Mathematics 20. (Not offered in 1933-34.)
- 140x *Modern Analytic Geometry* (3) Johnston  
Offered first semester. Prerequisite: Mathematics 20. Mon., Wed., and Fri., 6.10 p.m.
- 168 *Fourier Series and Spherical Harmonics* (3)  
Prerequisite: Mathematics 131. (Not offered in 1933-34.)
- 170 *Vector Analysis* (3) Woolard  
Prerequisite: Mathematics 20. Mon., Wed., and Fri., 5.10 p.m.

## THIRD GROUP

- †213-14 *Seminar in Mathematical Statistics* (2-2) Weida  
Prerequisite: training in Mathematics equivalent to that required for the Master's degree. Admission by permission of the instructor. Hours to be arranged.
- †215-16 *Calculus of Observations* (2-2) Weida  
Tues. and Thurs., 6.10 p.m.
- †217-18 *Mathematical Statistics* (3-3)  
Prerequisite: Mathematics 131 (or concurrent registration therefor). (Not offered in 1933-34.)
- 219 *Mathematical Theory of Probability* (3)  
(Not offered in 1933-34.)
- 220 *Theory of Numbers* (3) Johnston  
Tues., Thurs., and Sat., 5.10 p.m.
- 250 *Integral Equations* (3)  
(Not offered in 1933-34.)



- †251-52 *Theory of Functions of a Real Variable* (3-3)  
(Not offered in 1933-34.)
- †253-54 *Theory of Functions of a Complex Variable* (3-3) Mears  
Mon., Wed., and Fri., 6.10 p.m.
- †255-56 *Differential Geometry* (3-3) Taylor  
Mon., Wed., and Fri., 5.10 p.m.
- †257-58 *Theory of Finite Groups* (3-3)  
(Not offered in 1933-34.)
- †265-66 *Modern Algebra* (3-3)  
(Not offered in 1933-34.)
- †267-68 *Calculus of Variations* (3-2)  
(Not offered in 1933-34.)
- †269-70 *Tensor Analysis* (3-3)  
(Not offered in 1933-34.)
- †273-74 *Celestial Mechanics* (3-3)  
(Not offered in 1933-34.)
- 275 *Theory of the Potential* (3) Woolard  
Summer Sessions 1933—daily except Sat., 6.10 p.m., nine  
weeks' term.
- 297-98 *Reading and Research* The Staff  
Hours and credits to be arranged.

## MECHANICAL ENGINEERING

Arthur Frederick Johnson, M.E., *Professor of Mechanical Engineering, Executive Officer.*

Benjamin Carpenter Cruickshanks, B.S. in M.E., *Associate Professor of Mechanical Engineering.*

\*Walter Bartow Lawrence, B.S. in M.E., *Lecturer in Mechanical Engineering.*

Max Allen Lett, M.S. in M.E., *Instructor in Mechanical Engineering.*

James Augustin St. Omer Roy, B.S. in E.E., *Associate in Mechanical Engineering.*

Louis Leon Ludlow, jr., B.S. in M.E., *Associate in Mechanical Engineering.*

Minimum requirements for the major: see pages 148-49

### FIRST GROUP

- 3 *Mechanical Drawing* (2) Johnson, Lett, Ludlow  
Drafting-room fee, \$3. Section A, Mon. and Fri., 1.10 to 4 p.m.  
Section B, Mon. and Fri., 7.30 to 10.30 p.m.
- 4 *Descriptive Geometry* (2) Johnson, Lett, Ludlow  
Prerequisite: Solid Geometry. Drafting-room fee, \$3. Section  
A, Mon. and Fri., 1.10 to 4 p.m. Section B, Mon. and Fri.,  
7.30 to 10.30 p.m.
- 7-8 *Machine Drawing* (2-2) Johnson, Lett  
Prerequisite: Mechanical Engineering 4 and 13-14 (or concurrent  
registration for Mechanical Engineering 13-14). Drafting-  
room fee, \$3 a semester. Section A, Mon. and Wed., 1.10 to  
4 p.m. Section B, Mon. and Fri., 7.30 to 10.30 p.m.
- 13-14 *Mechanism* (2-2) St. Omer Roy, Lett  
Prerequisite: Mathematics 12, 19, and 20 (or concurrent regis-  
tration for Mathematics 19 and 20). Section A, Tues. and  
Thurs., 10.10 a.m. Section B, Tues. and Thurs., 5.10 p.m.

### SECOND GROUP

- 111-12 *Thermodynamics* (3-3) Cruickshanks  
Prerequisite: Physics 14. Section A, Mon., Wed., and Fri.,  
9.10 a.m. Section B, Mon., Wed., and Fri., 6.10 p.m.

\*On leave 1933-34.

- 115-16 *Mechanical Laboratory (2-2)* Cruickshanks  
Calibration of instruments; calorimetry; testing of prime movers, auxiliaries, and combustion engines. Prerequisite: Mechanical Engineering 111-12. Laboratory fee, \$6 a semester. Section A, Mon. and Wed., 1.10 p.m. Section B, Mon. and Wed., 7.30 p.m.
- 126 *Methods of Manufacture (2)* Johnson  
Fixtures, gauging, tools, costs. Prerequisite: Civil Engineering 26; Mechanical Engineering 8 and 14. Tues. and Thurs., 6.10 p.m.
- 127-28 *Machine Design (2-2)* Johnson  
Prerequisite: Civil Engineering 26, 41, 132, and 134; Mechanical Engineering 112 and 126. Drafting-room fee, \$3 a semester. Section A, Wed. and Fri., 1.10 to 4 p.m. Section B, Mon. and Fri., 7.30 to 10.30 p.m.
- 129-30 *Power Plants (3-3)* Cruickshanks  
Design, layout, installation, and operation of power plants and equipment. Prerequisite: Mechanical Engineering 112. Mon., Wed., and Fri., 5.10 p.m.
- 131 *Heating and Ventilating (2)* Lawrence  
Prerequisite: Mechanical Engineering 112. Tues. and Thurs., 5.10 p.m. (Not offered in 1933-34.)
- 133 *Combustion Engines (2)* Johnson  
Prerequisite: Civil Engineering 132 and 134; Electrical Engineering 10; Mechanical Engineering 112. Section A, Tues. and Thurs., 11.10 a.m. Section B, Tues. and Thurs., 6.10 p.m.
- 138 *Refrigeration (2)* Lawrence  
Prerequisite: Mechanical Engineering 111. Tues. and Thurs., 5.10 p.m. (Not offered in 1933-34.)



## MEDICINE

Walter Andrew Bloedorn, A.M., M.D., *Professor of Medicine, Executive Officer.*

William Johnston Mallory, A.M., M.D., *Professor of Medicine.*

Coursen Baxter Conklin, A.M., M.D., *Clinical Professor of Medicine.*

Frank Adelbert Hornaday, M.S., M.D., *Assistant Professor of Medicine.*

Charles Robert Lee Halley, A.B., M.D., *Associate in Medicine.*

John Alton Reed, A.B., M.D., *Associate in Medicine.*

Watson William Eldridge, M.D., *Associate in Medicine.*

Stuart Oliver Foster, A.B., M.D., *Associate in Medicine.*

Herman Solomon Hoffman, A.B., M.D., *Associate in Medicine.*

John Minor, A.B., M.D., *Associate in Medicine.*

Maurice Protas, A.B., M.D., *Associate in Medicine.*

Albert Earle Conradis, A.B., M.B.A., LL.B., *Associate in Medical Jurisprudence.*

Irving Brotman, M.D., *Clinical Instructor in Medicine.*

Paul Frederick Dickens, B.S., M.D., *Clinical Instructor in Medicine.*

William LeRoy Dunn, A.M., M.D., *Clinical Instructor in Medicine.*

Harry Friedenberg, A.B., M.D., *Clinical Instructor in Medicine.*

Bernard Lauriston Hardin, jr., A.B., M.D., *Clinical Instructor in Medicine.*

Robert Howe Harmon, A.B., M.D., *Clinical Instructor in Medicine.*

Marvin McDugald McLean, M.D., *Clinical Instructor in Medicine.*

Harry Arnold Hull McNitt, A.M., M.D., *Clinical Instructor in Medicine.*

Nicholas Athanasiou Mandelos, M.D., *Clinical Instructor in Medicine.*

George Arnold Holm, B.S., M.D., *Clinical Instructor in Medicine.*

Raymond Wilkins Murray, A.B., M.D., *Clinical Instructor in Medicine.*

### 122 *Introductory Medical Clinics (elective)*

Bloedorn and Staff

This course is given as part of a course on introductory medical and surgical clinics. Two hours a week.

### 315-16 *Dispensary Clinics*

The Staff

Well-organized group clinical instruction is given in the dispensaries of the University, Emergency, and Providence Hospitals. The student is assigned cases to be thoroughly studied; and at the conclusion of this study each case is reviewed in its entirety for him. Daily.

### 317-18 *General Medicine*

Bloedorn, Mallory, Halley

A systematic course of lectures designed to cover general aspects

of medical disease in all its phases, including therapeutics. Four hours a week.

319 *Medical Jurisprudence*

Conradis

Lectures on the rights and obligations of physicians, both legal and ethical, and on the legal problems with which the physician is brought into contact. One hour a week for twelve weeks.

320 *Tropical Medicine (elective)* The Staff and Visiting Lecturers  
This course consists of didactic lectures and demonstrations of the more common tropical diseases, with emphasis on their practical application to general medical practice. One hour a week.

321 *Physiotherapy (elective)*

Hoffman

This course is a series of lectures and demonstrations of the fundamentals of physical treatment and their application to general medical diseases. One hour a week for five weeks.

322 *Radiology and Radiotherapy (elective)*

The Staff

One hour a week.

325-26 *Physical Diagnosis*

Conklin and Staff

This course, which is designed to cover the entire subject of physical diagnosis, consists of section demonstrations and practice on the normal and abnormal subject. Four hours a week.

406 *Radiology and Radium Therapy (elective)*

The Staff

One hour a week.

407-8 *Ward Walks*

The Staff

Sections assigned to the University and Emergency Hospitals are taken for ward walks by the visiting physicians and their respective staffs in the course of their usual rounds. The student has an excellent opportunity to observe the actual management of patients. Two sections, one hour three times a week.

409-10 *Clinics*

Bloedorn and Staff

In these clinics the usual as well as the more rare diseases are taken up and discussed from the point of view of etiology, diagnosis, and treatment, with special emphasis upon differential diagnosis and the demonstration of clinical abnormalities as found in the various morbid processes. Gallinger Hospital, four sections, one and one-half hours three times a week.

411-12 *Clinical Clerkship*

Foster, Chase, Halley

The student is assigned a case which he is required to work up thoroughly, and inasmuch as the student's histories are

generally accepted for hospital records, he is under strict supervision. Gallinger Hospital, four sections, two and one-half hours three times a week; Emergency Hospital, two sections, two hours three times a week; University Hospital, two sections, two hours three times a week; St. Elizabeth's Hospital, one fourth of the class, two hours a week.

**413-14 *Clinical Pathological Conference***

**The Staff**

This course is designed to acquaint the students with the proper correlation of the clinical and post-mortem findings. Cases are described in detail from a clinical point of view, and the post-mortem findings are then thoroughly demonstrated, both grossly and with lantern slides. One hour a week.



## MILITARY SCIENCE AND TACTICS

Thomas Dupuy Woodson, M.D., *Lieutenant Colonel, Medical Corps, United States Army; Professor of Military Science and Tactics.*

397-98 *Military Science and Tactics*

Woodson

Advanced medical course. Physical examination of masses as employed in the Army; food and its relation to disease; water and its relation to disease; prevention and control of communicable diseases from the military standpoint; sanitation in field and garrison. One hour a week.

487-88 *Military Science and Tactics*

Woodson

Advanced medical course. Service in the O. R. C.; military hospitals and hospitalization in war; medical and surgical diseases peculiar to war; medical aspects of chemical warfare; aviation medicine; medical aspects of mobilization. Inspection of dairies, ice-cream plants, and packing houses. Methods used by the Army in selecting meats and meat products. Regulations concerning the slaughtering and preparation of meat and meat products. One hour a week.

## NEUROLOGY

Walter Freeman, Ph.D., M.D., *Professor of Neurology, Executive Officer.*  
 Karl Herman Langenstrass, M.D., *Associate Professor of Neuropathology.*  
 Herbert Hermann Schoenfeld, M.D., *Associate in Neurology.*  
 Hyman David Shapiro, M.D., *Clinical Instructor in Neurology.*

356 *Neurology* Freeman  
 Systematic lectures with moving pictures and lantern slides illustrating the chief neurologic syndromes and their anatomic bases. One hour a week for eight weeks.

358 *Neuropathology (elective)* Freeman and Staff  
 Individual work in the study of the diseased brain. Preparation of sections, mounting of specimens, dissection of centers and tracts, modeling, reconstructions. Laboratory of Neurology and Blackburn Laboratory, hours to be arranged. The course is limited to two students who have previously shown special aptitude in laboratory work. Practically, this will mean devoting at least six weeks during the summer following the second year to work in general pathology at Blackburn Laboratory, subject to approval by the Superintendent, St. Elizabeth's Hospital.

445 *Neurosurgery (elective)* Schoenfeld  
 Lectures and clinical demonstrations in surgery of the brain, spinal cord, and peripheral nerves. Emphasis is laid upon fundamentals and upon the possibilities of surgery in the relief of symptoms. One hour a week.

446 *Neurology (elective)* Freeman and Staff  
 Individual instruction in the niceties of neurologic diagnosis in the ward, clinic, and laboratory; attendance at Neurologic Staff Conferences, Neuropathologic Sessions, Clinicopathologic Conferences. Ten hours a week at Gallinger and St. Elizabeth's Hospitals. Limited to six students.

447-48 *Clinical Neurology* Freeman and Staff  
 Lectures and demonstrations of patients illustrating the diagnosis and treatment of nervous disorders. The vast material of St. Elizabeth's Hospital is drawn upon not only for the commoner disorders, but also for some of the unusual syndromes. One hour a week.

449-50 *Neurologic Examinations*

Freeman and Staff

Practical instruction in the examination of patients presenting nervous diseases. Each student is required to perform a detailed examination of six patients. St. Elizabeth's Hospital, one fourth of the class, two hours a week.



## OBSTETRICS AND GYNECOLOGY

Radford Brown, M.D., *Professor of Obstetrics and Gynecology, Executive Officer.*

Howard Francis Kane, A.B., M.D., *Professor of Obstetrics and Gynecology*  
Elijah White Titus, Phar.D., M.D., *Clinical Professor of Obstetrics and Gynecology.*

Jacob Kotz, M.D., *Clinical Professor of Obstetrics and Gynecology.*

Richard Lee Silvester, M.S., M.D., *Associate in Obstetrics and Gynecology.*

Henry Lauran Darner, A.B., M.D., *Associate in Obstetrics and Gynecology.*

William Preston Haynes, A.B., M.D., *Associate in Obstetrics and Gynecology.*

George Nordlinger, A.B., M.D., *Associate in Obstetrics and Gynecology.*

Herbert Percy Ramsey, A.B., M.D., *Associate in Obstetrics and Gynecology.*

William Raymond Thomas, M.D., *Associate in Obstetrics and Gynecology.*

Joseph Harris, A.B., M.D., *Associate in Obstetrics and Gynecology.*

Laurence Lee Cockerille, M.D., *Clinical Instructor in Obstetrics and Gynecology.*

Clayton Howard Hixson, M.D., *Clinical Instructor in Obstetrics and Gynecology.*

Henry John Russell McNitt, B.S., M.D., *Clinical Instructor in Obstetrics and Gynecology.*

Bernard Notes, M.D., *Clinical Instructor in Obstetrics and Gynecology.*

Helen Gladys Kain, B.S., M.D., *Clinical Instructor in Obstetrics and Gynecology.*

Esther Alsylvia Nathanson, A.B., M.D., *Clinical Instructor in Obstetrics and Gynecology.*

Samuel Mayer Dodek, M.D., *Clinical Instructor in Obstetrics and Gynecology.*

### 361-62 *Normal Obstetrics*

Lectures and recitations on the physiology and management of normal pregnancy, labor, and the puerperium. Complications of pregnancy are considered. Two hours a week.

### 364 *Gynecological Pathology (elective)*

Twenty one-hour lectures covering the essentials of gynecologic pathology, and ten one-hour periods of demonstration and study of the gross and microscopic material covered by the lectures.

- 365-66 *Principles and Practice of Gynecology* Titus  
A course on the subject matter of Gynecology, medical and surgical, with dispensary clinics to demonstrate the principles taught. One hour a week for sixteen weeks in the first semester and for six weeks in the second.
- 451-52 *Abnormal Obstetrics* Kane, Silvester  
Lectures, recitations, and conferences on the pathology of pregnancy, labor, and the puerperium. One hour a week.
- 453 *Operative Gynecology* Kotz  
A course of lectures describing the fundamental operative procedures in Gynecology. One hour a week for ten weeks.
- 455-56 *Clinical Obstetrics* Brown and Staff  
This course embraces dispensary clinics on prenatal care, ward clinics, observation of abnormal deliveries, and the attendance, under supervision, of six cases in the out-patient service. Gallinger Hospital.
- 457-58 *Clinical Gynecology* Brown and Staff  
Clinical instruction covering the more important gynecological diseases and operations. Gallinger Hospital.
- 459-60 *Clinical Obstetrics* Brown and Staff  
This course embraces dispensary clinics on prenatal care, ward clinics, and observation of abnormal deliveries. Gallinger Hospital.

## OPHTHALMOLOGY

William Thornwall Davis, M.D., *Professor of Ophthalmology, Executive Officer.*

George Victor Simpson, M.D., *Assistant Professor of Ophthalmology.*

Ernest Alfred Watson Sheppard, M.D.C.M., *Clinical Instructor in Ophthalmology.*

Frederick Leslie Benton, M.D., Sc.D., *Clinical Instructor in Ophthalmology.*

### 371-72 *Dispensary Clinic*

Clinical demonstration in prevalent diseases usually met in the dispensary cases. Emergency Hospital, one section daily. The Staff

### 461 *Ophthalmology*

A lecture course presenting the principles of Ophthalmology with special reference to topics of importance to the general practitioner. Two hours a week for ten weeks. Davis

### 463-64 *Clinic*

Intensive training in diseases of the eye, including etiology, and diagnosis and treatment in their application to clinical cases. Episcopal Hospital, three hours twice a week. Davis and Staff



## OTO-RHINO-LARYNGOLOGY

William Beverley Mason, M.D., *Professor of Oto-rhino-laryngology, Executive Officer.*

Daniel Bruce Moffett, A.B., M.D., *Associate Professor of Oto-rhino-laryngology.*

William Herndon Jenkins, M.D., *Clinical Professor of Oto-rhino-laryngology.*

Boyce Richardson Bolton, M.D., *Assistant Professor of Oto-rhino-laryngology.*

David Davis, A.B., M.D., *Associate in Oto-rhino-laryngology.*

Don R. Johnson, LL.B., M.D., *Associate in Oto-rhino-laryngology.*

LeRoy Lee Sawyer, jr., A.B., M.D., *Clinical Instructor in Oto-rhino-laryngology.*

Aubrey David Fischer, M.D., *Clinical Instructor in Oto-rhino-laryngology.*

Jeter Carroll Bradley, M.D., *Clinical Instructor in Oto-rhino-laryngology.*

### 377-78 *Dispensary Clinic*

Mason and Staff

Practical clinical instruction in the diagnosis and treatment of diseases of the ear, nose, and throat. Emergency Hospital, one section daily; Children's Hospital, one hour twice a week.

### 466 *Oto-rhino-laryngology*

Jenkins

Clinical lectures and demonstration of diseases of the ear, nose, and throat, including bronchoscopy and esophagoscopy. One hour a week.

### 467 *Oto-rhino-laryngology*

Moffett

Lectures on the anatomy, physiology, and diseases of the ear, nose, and throat. One hour a week.

### 469-70 *Clinic*

Mason and Staff

Practical clinical instruction in the diagnosis and treatment of diseases of the ear, nose, and throat. Episcopal Hospital, one section, two and three-fourths hours twice a week; Gallinger Hospital, one section, one and one-half hours a week.

## PATHOLOGY AND EXPERIMENTAL MEDICINE

Edward Bright Vedder, Sc.D., M.D., *Professor of Experimental Medicine.*  
*Executive Officer.*

Roger Morrison Choisser, B.S., M.D., *Professor of Pathology.*

James Leslie Snyder, B.S., M.D., *Instructor in Pathology.*

Charles Rosenberg, A.M., *Instructor in Pathology.*

### 216 *Clinical Microscopy*

Vedder

Lectures and laboratory work covering aspects of diagnosis, including the study of urinalysis, blood-counting, stomach contents, feces, sputum, spinal fluids, and pleural exudates. One half of the class, four hours a week for eight weeks. Lectures to the entire class one hour a week for sixteen weeks.

### 217-18 *Pathology*

Choisser, Snyder

A course covering inflammation, repair, degenerations, the effects of plant (including bacteria) and animal parasites on the body, the effects of chemical and physical agents, the formation of new growths, etc., followed by special pathology of the organs and of the specific diseases. The laboratory work consists primarily of the histologic study of diseased tissues and neoplasms. Three hours a week in the first semester and twelve hours a week in the second.

### 307-8 *Autopsies*

The Staff

Groups of students are called from time to time for autopsies performed by members of the staff. Amphitheater necropsies are held regularly at the University and Gallinger Hospitals; the clinicians and pathologists participate in the discussions and elucidation of the findings.

### 309 *Oncology (elective)*

Choisser

### 401-2 *Problems and Methods in Experimental Pathology and Medicine*

Vedder

Hours and credits to be arranged.

### 403-4 *Clinical Pathological Conferences*

Choisser

Clinical records are presented by the student assigned to the case in the wards. Autopsy and clinical findings are compared, and the specimens are demonstrated and examined by all present. One hour a week.

### 405 *Research*

Vedder, Choisser

Hours and credits to be arranged.

## PEDIATRICS

Harry Hampton Donnally, A.M., M.D., *Professor of Pediatrics, Executive Officer.*

Henry Cook Macatee, M.D., *Clinical Professor of Pediatrics.*

Preston Alexander McLendon, B.S., M.D., *Assistant Professor of Pediatrics.*

Charles Aurelius Schutz, M.D., *Assistant Professor of Pediatrics.*

Loren Bascom Taber Johnson, B.S., M.D., *Associate in Pediatrics.*

Margaret Mary Nicholson, A.B., M.D., *Clinical Instructor in Pediatrics.*

Elizabeth Emery Chickering, A.B., M.D., *Clinical Instructor in Pediatrics.*

Aaron Nimetz, A.B., M.D., *Clinical Instructor in Pediatrics.*

James Alfred Rolls, A.B., M.D., *Clinical Instructor in Pediatrics.*

### 337-38 *Pediatrics*

Schutz

A course of lectures on diseases and malformations of the newly born. Growth (mental and physical), metabolism, nutrition, nutritional diseases, therapeutics, habits, preventive pediatrics, and social aspects, are considered. One hour a week in the first semester and for eight weeks in the second.

### 339-40 *Dispensary Clinic*

The Staff

Clinical course in infant feeding. Children's Hospital, Infant Welfare Center, one section, one hour a week.

### 341-42 *Dispensary Clinic*

Schutz

Clinical course in the infant and the preschool child. Children's Hospital, Child Welfare Center, one section, one hour a week.

### 343-44 *Dispensary Clinic*

The Staff

Clinical course in the out-patient department, including minor to serious disorders of children. Children's Hospital, one section, one and one-half hours four times a week.

### 420 *Special Clinic*

Johnson

The emotional life of the child, his habit formations, and his behavior problems. Children's Hospital, sections, three hours twice a week.

### 427-28 *Clinic*

Donnally

Teaching clinic. Children's Hospital, entire class, one and one-fourth hours a week.

### 429-30 *Clinical Clerkship*

Donnally, McLendon

Ward walks, physical diagnosis in children, special pediatric



procedures, bedside instruction in contagious diseases, clinical laboratory and necropsy instruction, diagnosis and treatment of urgent cases. Children's Hospital, one fourth of the class, three hours three times a week.

- 431-32 *Contagious-Disease Clinic* Macatee  
Bedside instruction in scarlet fever. Garfield Hospital, one fourth of the class, one hour a week.

- 433-34 *Contagious-Disease Clinic* Rolla  
Bedside instruction in diphtheria. Gallinger Hospital, one fourth of the class, one hour a week.

- 435 *Clinic* Donnally and Staff  
Clinical instruction in the care of the newly born, congenital malformations, birth injuries, and prematurity. Gallinger Hospital, one fourth of the class, one hour a week.

## PHARMACOLOGY AND THERAPEUTICS

George Byron Roth, A.B., M.D., *Professor of Pharmacology, Executive Officer.*

Phoebe Jeannette Crittenden, Ph.D., *Instructor in Pharmacology.*

James Holmes Defandorf, A.M., *Instructor in Pharmacology.*

### 226 *Pharmacology*

Roth and Staff

This course consists of laboratory instruction covering both the chemical nature and the biological effects of drugs. Five hours a week.

### 228 *Pharmacology*

Roth

A didactic course, supplemented by demonstration, which correlates the most prominent facts relating to the more important therapeutic agents, special consideration being given to the drugs found in the United States Pharmacopoeia and New and Nonofficial Remedies. Three hours a week.

### 230 *Pharmacology Conference (elective)*

Roth and Staff

### 232 *Prescription Writing*

Roth

Sixteen one-hour conferences on the form of the prescription, with practical exercises.

### 311-12 *Therapeutics*

The Staff

Lectures, conferences, and demonstrations on the clinical uses of drugs. One hour a week in the first semester and for twelve weeks in the second.

### 313 *Therapeutics Seminar (elective)*

Roth

One hour a week.

### 314 *Research*

Roth and Staff

Hours and credits to be arranged.

## PHARMACY

William Paul Briggs, M.S., *Professor of Pharmacy, Executive Officer.*  
 Louis Francis Bradley, Phar.D., *Professorial Lecturer on Professional Pharmacy.*

Eugene Christian Brokmeyer, *Lecturer on Pharmaceutical Jurisprudence.*

Samuel Louis Hilton, Phar.D., *Lecturer on Incompatibilities.*

Augustus Carrier Taylor, *Lecturer on Pharmaceutical Ethics.*

Waldemar Bruce Philip, Phar.D., LL.B., *Lecturer on Pharmaceutical Economics.*

John William Lee, B.S. in Phar., *Instructor in Pharmaceutical Chemistry.*

Minimum requirements for the major: see pages 156-57

### FIRST GROUP

1-2 *Pharmaceutical Mathematics (2-2)*  
 Mon. and Wed., 10.10 a.m.

Lee

21-22 *Operative Pharmacy (5-5)*

Briggs, Lee

The theory and manufacture of Pharmacopœial and Formulary preparations. Material fee, \$3 a semester; breakage deposit, \$10. First semester: Mon., Wed., and Fri., 9.10 a.m.; laboratory Mon. and Wed., 1.10 to 4 p.m. Second semester: Mon. and Wed., 9.10 a.m.; laboratory Mon., Wed., and Fri., 1.10 to 4 p.m.

23-24 *Pharmacognosy (3-3)*

Prerequisite: Botany 2. Material fee, \$3 a semester. Mon. and Wed., 11.10 a.m. Laboratory: first semester, Fri., 1.10 to 4 p.m.; second semester, Fri., 9.10 a.m. to 12.

### SECOND GROUP

101-2 *Dispensing Pharmacy (4-4)*

Briggs

Compounding of typical prescriptions and a study of incompatibilities. Prerequisite: Pharmacy 2 and 22. Material fee, \$3 a semester; breakage deposit, \$10. Tues. and Thurs., 9.10 a.m.; laboratory Mon. and Wed., 1.10 to 4 p.m.

107-8 *History of Pharmacy (2-1)*

Briggs

First semester: Mon. and Wed., 11.10 a.m. Second semester: hours to be arranged.



- 110 *Inorganic Pharmaceutical Chemistry* (3) Lee  
Preparation and qualitative testing. Prerequisite: Chemistry 21. Material fee, \$3; breakage deposit, \$5. Tues. and Thurs., 11.10 a.m.; laboratory Fri., 1.10 to 4 p.m.
- 151 52 *Advanced Pharmacognosy* (2-2)  
Prerequisite: Pharmacy 24. Material fee, \$3 a semester. Mon., 9.10 a.m.; laboratory Fri., 9.10 a.m. to 12.
- 161 *Pharmaceutical Jurisprudence* (1) Brokmeyer  
Tues., 2.10 p.m.
- 163 *Organic Pharmaceutical Chemistry* (3) Lee  
Preparation and qualitative testing. Prerequisite: Chemistry 42. Material fee, \$3; breakage deposit, \$5. Tues. and Thurs., 1.10 p.m.; laboratory Thurs., 2.10 to 5 p.m.
- 165-66 *Pharmacology* (3-3)  
Prerequisite: Pharmacy 24; Physiology 116. Material fee, \$3 second semester; breakage deposit, \$5. First semester: Mon. and Wed., 10.10 a.m., and Thurs., 11.10 a.m. Second semester: Mon. and Wed., 10.10 a.m.; laboratory Sat., 9.10 a.m. to 12.
- 171-72 *Dispensing Pharmacy* (2-2) Briggs  
Advanced compounding and study of the equipment and management of professional pharmacies. Prerequisite: Pharmacy 102. Material fee, \$3 a semester. Tues., 10.10 a.m.; laboratory Wed., 1.10 to 4 p.m.
- 174 *Quantitative Pharmaceutical Chemistry* (4) Lee  
Prerequisite: Chemistry 42; Pharmacy 24. Material fee, \$3; breakage deposit, \$5. Fri. and Sat., 9.10 a.m.; laboratory Tues., 1.10 to 4 p.m., and Sat., 10.10 a.m. to 1 p.m.
- 176 *Review* (2) Briggs  
Review of the United States Pharmacopoeia and National Formulary. Tues. and Thurs., 11.10 a.m.
- 178 *Pharmaceutical Economics* (2) Philip  
Wed. and Fri., 11.10 a.m.
- 179-80 *Food and Drug Analysis* (3-3) Lee  
Prerequisite: Chemistry 42; Pharmacy 22 and 166. Material fee, \$3 a semester; breakage deposit, \$10. Fri., 10.10 a.m.; laboratory Tues. and Thurs., 1.10 to 4 p.m.
- 184 *Chemical Pharmacology* (2)  
Prerequisite: Pharmacy 163 and 166. Material fee, \$3. Tues., 11.10 a.m.; laboratory Sat., 9.10 a.m. to 12.
- 190 *Survey of Pharmaceutical Literature* (2) Briggs  
Hours to be arranged.

## PHILOSOPHY

Edward Elliott Richardson, M.D., Ph.D., *Elton Professor of Mental and Moral Philosophy.*

Christopher Browne Garnett, jr., Ph.D., *Assistant Professor of Philosophy, Executive Officer.*

Minimum requirements for the major: Philosophy 103, 111-12, 122, and additional requirements to be specified by the Executive Officer.

### SECOND GROUP

- |        |                                                                                                                                                                                                          |                     |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 103    | <i>Principles of Philosophy</i> (3)<br>Mon., Wed., and Fri., 9.10 a.m.                                                                                                                                   | Garnett             |
| 111-12 | <i>History of Philosophy</i> (3-3)<br>Section A, Mon., Wed., and Fri., 11.10 a.m. Section B, Mon., Wed., and Fri., 6.10 p.m.                                                                             | Richardson, Garnett |
| 122    | <i>Inductive and Deductive Logic</i> (3)<br>Mon., Wed., and Fri., 5.10 p.m.                                                                                                                              | Garnett             |
| 132    | <i>Ethics</i> (3)<br>Mon., Wed., and Fri., 9.10 a.m.                                                                                                                                                     | Garnett             |
| 136    | <i>Outlines of Greek Thoughts</i> (3)<br>Tues., Thurs., and Sat., 9.10 a.m.                                                                                                                              | Richardson          |
| 151    | <i>Problems in the Philosophy of the Sixteenth and Seventeenth Centuries</i> (3)<br>The doctrines of Bruno, Bacon, Descartes, Malebranche, Spinoza, Leibniz, and Newton. Mon., Wed., and Fri., 5.10 p.m. | Garnett             |
| 155-56 | <i>Philosophical Movements in the Eighteenth Century</i> (3-3)<br>Ability to read French and German is desirable. Hours to be arranged.                                                                  | Garnett             |
| 163-64 | <i>Philosophy of Religion</i> (3-3)<br>Mon., Wed., and Fri., 5.10 p.m.                                                                                                                                   | Richardson          |

### THIRD GROUP

- |        |                                                                           |           |
|--------|---------------------------------------------------------------------------|-----------|
| 221-22 | <i>Research</i> (3-3)<br>Kant's doctrines of space. Tues., 7.10 to 9 p.m. | Garnett   |
| 251-52 | <i>Seminar</i> (3-3)<br>Hours to be arranged.                             | The Staff |

## PHYSICAL EDUCATION FOR MEN

James Ebenezer Pixlee, B.S., *Professor of Physical Education for Men, Executive Officer.*

Claud Max Farrington, A.B., B.S., *Instructor in Physical Education for Men.*

Jean Elyle Sexton, A.B., *Instructor in Physical Education for Men.*

Leonard Patrick Walsh, A.B., *Instructor in Physical Education for Men.*

William Henry Myers, A.B., *Instructor in Physical Education for Men.*

This Department includes all the recognized athletic activities of the men students of the University.

A minimum of four semester-hours in Physical Education selected from Physical Education activity courses is required for graduation and is compulsory for all freshman and sophomore men except those exempt under the regulations stated on page 69.

Upon entering the University all students are given a complete medical examination and a physical-efficiency test of general bodily skills. After these tests are satisfied, the student is assigned to restrictive or elective work. The Department furnishes gymnasium uniforms and personal equipment upon a small payment, and also looks upon payment of a deposit.

If the physical-efficiency test is passed satisfactorily, free election is allowed to every freshman and sophomore student of the following activity courses: Physical Education 31-32, 33, 34, 35-36, 37-38, 39-40, and others which may be established from time to time.

Minimum requirements for the major, Dual-Major Teacher's Course: twenty-four semester-hours of Physical Education courses, including all required courses, in addition to the following prerequisites: English 1-2; Psychology 1; Zoology 1-2; six semester-hours of elective Social Science; Physical Education 50, 51, 52, and 57; and four hours of activity Physical Education.

Minimum requirements for the major, Single-Major Teacher's Course: thirty semester-hours of Physical Education courses, including all required courses, in addition to the following prerequisites: English 1-2; Psychology 1; Zoology 1-2; six semester-hours of elective Social Science; Physical Education 50, 51, 52, 57, and 59-60, and four hours of activity Physical Education.

Minimum requirements for the minor: twelve semester-hours of Physical Education courses numbered above 100, including Physical Education 106 and 131, in addition to the following prerequisites: English 1-2; Psychology 1; Zoology 1-2; six semester-hours of elective Social Science; and Physical Education 50, 51, and 57. This satisfies both Physical Education curricula.

### FIRST GROUP

17-18 *Freshman Physical Education (1-1)* Sexton  
Section A, Mon. and Wed., 9.10 a.m. Section B, Tues. and  
Thurs., 10.10 a.m. Section C, Tues. and Thurs., 12.10 p.m.



- 19-20 *Freshman Individual Gymnastics* (1-1) Sexton, Myers  
Corrective and remedial exercises. Section A, Mon., Wed., and  
Fri., 9.10 a.m. Section B, Tues., Thurs., and Sat., 10.10 a.m.
- 21-22 *Apparatus and Tumbling* (1-1) Farrington, Sexton  
Hours to be arranged.
- 23-24 *Sophomore Physical Education* (1-1) Sexton  
Continuation of Physical Education 17-18. Four separate lines  
of activity are required. Section A, Tues. and Thurs., 10.10  
a.m. Section B, Tues. and Thurs., 11.10 a.m.
- 25-26 *Sophomore Individual Gymnastics* (1-1) Farrington, Myers  
Continuation of Physical Education 19-20. Hours to be ar-  
ranged.
- 27-28 *Elementary Swimming* (1-1) Farrington  
Section A, Mon. and Wed., 9.10 a.m. Section B, Tues. and  
Thurs., 9.10 a.m.
- 29-30 *Advanced Swimming* (1-1) Farrington  
Section A, Mon. and Wed., 10.10 a.m. Section B, Tues. and  
Thurs., 10.10 a.m.
- 31-32 *Basketball* (1-1) Pixlee and Staff  
Hours to be arranged.
- 33 *Football* (1) Pixlee and Staff  
Hours to be arranged.
- 34 *Baseball* (1) Pixlee and Staff  
Hours to be arranged.
- 35-36 *Track* (1-1) Sexton  
Hours to be arranged.
- 37-38 *Tennis* (1-1) Farrington  
Hours to be arranged.
- 39-40 *Golf* (1-1) Farrington, Sexton  
Hours to be arranged.
- 50 *Playground and Community Recreation* (2) Myers  
Tues. and Thurs., 1.10 p.m.
- 51 *Anatomy and Physiology* (3) Myers  
Prerequisite: Zoology 1-2. Mon., Wed., and Fri., 1.10 p.m.
- 52 *First Aid and Care of Athletic Injuries* (2) Sexton, Myers  
Prerequisite: Physical Education 51; Zoology 1-2. Tues. and  
Thurs., 1.10 p.m.
- 53 *Administration of Intramural Activities* (2) Sexton  
Tues. and Thurs., 2.10 p.m.

- 54 *Personal Hygiene* (2) Myers  
Prerequisite: Physical Education 51; Zoology 1-2. Tues. and Thurs., 10.10 a.m.
- 57 *Principles of Play* (2) Sexton  
Tues. and Thurs., 1.10 p.m.
- 59-60 *Theoretical and Practical Study of Fundamental Skills in Major and Minor Sports* (2-2) Pixlee, Myers  
Tues. and Thurs., 8.10 a.m.
- 61-62 *Theoretical and Practical Study of the Technique Employed in Team Fundamentals of Major and Minor Sports* (2-2) Pixlee, Myers  
Tues. and Thurs., 9.10 a.m.

## SECOND GROUP

- 105 *Teaching Technique and Methods in Physical Education* (3) Sexton, Myers  
Prerequisite: Physical Education 17-18. Mon., Wed., and Fri., 10.10 a.m.
- 106 *Administration and Organization of Physical Education* (3) Walsh  
Tues., Thurs., and Sat., 9.10 a.m.
- 108 *Applied Anatomy and Kinesiology* (3) Walsh  
Prerequisite: Physical Education 51; Zoology 1-2. Mon., Wed., and Fri., 10.10 a.m.
- 109 *History of Physical Education* (2) Myers  
Tues. and Thurs., 11.10 a.m.
- 112 *Physiology and Exercise* (2) Walsh, Myers  
Prerequisite: Physical Education 51 and 108; Zoology 1-2. Tues. and Thurs., 10.10 a.m.
- 113 *Administration and Supervision of Health Education* (2) Myers  
Application of principles to health service in public schools.  
Prerequisite: Physical Education 51; Zoology 1-2. Mon. and Wed., 11.10 a.m.
- 115-16 *Systems and Coaching Methods of Major and Minor Sport Activities* (2-2) Pixlee and Staff  
Prerequisite: Physical Education 59-60 and 61-62. First semester: Tues. and Thurs., 12.10 p.m. Second semester: Tues. and Thurs., 1.10 p.m.
- 117-18 *Psychology of Athletics and of Coaching* (2-2) Pixlee, Myers  
Prerequisite: Psychology 1. First semester: Wed. and Fri., 10.10 a.m. Second semester: Wed. and Fri., 2.10 p.m.

125-26 *Supervised Practice Teaching in Physical Education* (3-3)

Sexton, Myers

Required of all major students. Assignments are made with schools in Washington, D. C. Four hours of this practice must be had in the high schools, of junior or senior rank, in Washington, and two hours in the City Playground Association. Practical work in Physical Education 17-18 or 23-24. Prerequisite: at least twelve semester-hours in Physical Education, including Physical Education 105. Six laboratory hours, either semester. Hours to be arranged.

128 *Corrective Physical Education* (3)

Myers

Prerequisite: Physical Education 51 and 105; Zoology 1-2. Mon., Wed., and Fri., 10.10 a.m.

131 *Principles of Physical Education* (3)

Walsh

Prerequisite: at least twelve semester-hours of Physical Education. Mon., Wed., and Fri., 9.10 a.m.

132 *Tests and Measurements in Physical Education* (2)

Myers

Criticism of the various types of tests and discussion of statistical methods. Mon. and Wed., 11.10 a.m.

134 *Administration and Supervision of Park, City, and School Playground Activities* (2)

Myers

Field trips, observation, and practical work. Prerequisite: Physical Education 50. Hours to be arranged.

## THIRD GROUP

251-52 *Test Construction in Physical Education* (3-3)

Pixlee, Myers

Prerequisite: Physical Education 132. Fri., 7.30 to 9.30 p.m.

251-54 *Seminar in Physical-Education Curriculum* (3-3)

Pixlee, Myers

Hours to be arranged.



## PHYSICAL EDUCATION FOR WOMEN

Ruth Harriet Atwell, A.M., *Associate Professor of Physical Education for Women, Executive Officer.*

Grace Guile Purse, A.B., M.D., *Lecturer on Hygiene.*

Maude Nelson Parker, *Lecturer in Physical Education for Women.*

Helen Bennett Lawrence, *Instructor in Physical Education for Women.*

Ruth Mary Aubeck, B.S., *Instructor in Physical Education for Women.*

Agnes MacAulay Rodgers, M.S., *Instructor in Physical Education for Women.*

Physical Education 1-2 and 3-4 are required for graduation and are compulsory for all freshman and sophomore women except those exempt under the regulations stated on page 69. All requests for postponement of Physical Education must be made to and approved by the Executive Officer.

Upon entrance all students are given a complete medical examination. Students who are physically unable to do the regular work are assigned to individual-gymnastic classes and to moderate sports which are conducted under the direct supervision of the resident physician.

Because of the necessity for uniform costume, the required gymnasium outfit must be ordered through this Department.

Minimum requirements for the major: see page 166

### FIRST GROUP

#### 1-2 Freshman Physical Education (1-1)

The Staff

One lecture on personal hygiene and two periods of activity a week. In the fall season students elect hockey, soccer, or archery; in the winter season, rhythmic dancing or a course in body mechanics; in the spring season, swimming or (for those who pass the swimming test) track, baseball, archery, golf, riding, or tennis. Hygiene: section A, Mon., 2.30 p.m.; section B, Tues., 2.30 p.m.; section C, Thurs., 9.10 a.m. Activities: section A, Mon. and Wed., 1.10 p.m.; section B, Tues. and Thurs., 1.10 p.m.; section C, Mon. and Wed., 2.10 p.m.; section D, Tues. and Thurs., 2.10 p.m.

#### 3-4 Sophomore Physical Education (1-1)

The Staff

In the fall season students elect hockey, soccer, golf, archery, tennis, or riding; in the winter season, rhythmic dancing, clog and folk dancing, basketball, or volley ball; in the spring season,

track, tennis, golf, archery, riding, baseball, or swimming. Section A, Mon. and Wed., 1.10 p.m. Section B, Tues. and Thurs., 1.10 p.m. Section C, Mon. and Wed., 2.10 p.m. Section D, Tues. and Thurs., 2.10 p.m. Section E, Tues. and Thurs., 9.10 a.m. Section F, Mon. and Wed., 11.10 a.m.

- 5-6 *Theory and Practice of Play Activities* (3-3) Atwell, Parker  
The age periods of the child and the adaptation of physical activities to these periods; history and organization of playgrounds and of physical-education programs for elementary schools. Tues. and Thurs., 3.30 to 5 p.m.

- 8 *Theory and Practice of Physical Education* (3-3) The Staff  
The methods of teaching gymnastics, sports, and dancing, with practice teaching. The following activities are included: gymnastics, apparatus, and marching; folk, clog, and natural dancing; hockey; basketball; tennis; swimming; soccer; archery; baseball; track; and golf. Fri., 2.10 to 4 p.m., and other hours to be arranged.

#### SECOND GROUP

- 101-2 *Therapeutic Gymnastics and Physical Examinations* (3-3) Lawrence  
Theory and mechanics of postural defects, with practice in exercises adapted thereto; physical-examination methods used in the diagnosis of physical defects. Mon., Wed., and Fri., 11.10 a.m.

- 103-4 *Kinesiology* (3-3) Aubeck  
A study of the anatomical mechanism of movement. Mon., Wed., and Fri., 3.10 p.m.

- 106 *School Health Problems* (3) Aubeck  
Problems relating to the health of the school child and teacher; physical examinations; symptoms and control of common school diseases; malnutrition; the health environment of the school child. Mon., Wed., and Fri., 10.10 a.m.

- 107 *History of Physical Education* (2) Atwell, Aubeck  
Historical and contemporary survey of Physical Education. Mon. and Wed., 10.10 a.m.

- 109 10 *Theory and Practice of Physical Education* (3-3) The Staff  
Continuation of Physical Education 7-8. Fri., 2.10 to 4 p.m., and other hours to be arranged.

- 111-12 *Organization and Administration of Physical Education* (3-3) Atwell  
Problems of organization for physical education in elementary

and secondary schools and colleges. Mon., Wed., and Fri., 9.10 a.m.

- 113 *Theory and Practice of Physical Education* (3) The Staff  
Continuation of Physical Education 109-10. Fri., 2.10 to 4 p.m., and other hours to be arranged.

- 116 *Advanced Therapeutic Gymnastics* (3) Lawrence  
An advanced course in the subjects considered in Physical Education 101-2, with laboratory work assisting in the individual-gymnastics classes and with physical examinations. One lecture and two laboratory periods a week; hours to be arranged.

- 117 *Tests and Measurements in Physical Education* (2) Atwell  
A survey of tests and measurements in Physical Education, with the theories underlying their use; practice in giving tests; elementary statistics. Tues. and Thurs., 11.10 a.m.

- 118 *Camp Leadership* (2) Lawrence  
Camp organization, program-making, camp activities, and the qualifications of counselors. Tues. and Thurs., 11.10 a.m.

- 129-30 *Observation and Cadet Teaching* (3 3)  
See Education 129-30.



## PHYSICS

Thomas Benjamin Brown, Ph.D., *Professor of Physics, Executive Officer.*

\*Walter Lynn Cheney, Ph.D., *Professor of Physics.*

Raymond John Seeger, Ph.D., *Assistant Professor of Physics.*

James Louis Thomas, Ph.D., *Associate in Physics.*

Henry Joseph Wing, Ph.D., *Associate in Physics.*

Minimum requirements for the major: Physics 11, 12, 13, 14, 101, and 102; Mathematics 19 and 20; and at least twelve additional semester-hours in Physics. Candidates for the Bachelor of Science degree in Physics will include Mathematics 131 and 170. A Physical Science major may be arranged by the Executive Officers of the Departments of Physics and Chemistry for those desiring a combined major.

### FIRST GROUP†

- 11 *Properties of Matter, Statics, and Heat* (3) Brown, Seeger, and Staff  
Material fee, \$4.50. Section A, Mon. and Wed., 11.10 a.m., and Thurs., 1 to 3 p.m. Section B, Mon. and Fri., 11.10 a.m., and Fri., 1 to 3 p.m. Section C, Mon. and Wed., 5.10 p.m., and Wed., 6.30 to 8.30 p.m. Section D, Mon. and Fri., 5.10 p.m., and Thurs., 6.30 to 8.30 p.m.

Physics 11x—same as Physics 11, but offered second semester.  
Section A, Tues. and Thurs., 11.10 a.m., and Fri., 9 to 11 a.m.  
Section B, Tues. and Thurs., 11.10 a.m., and Thurs., 1 to 3 p.m.

- 12 *Electricity and Magnetism* (3) Seeger and Staff  
Prerequisite: Physics 11.‡ Material fee, \$4.50. Section A, Mon. and Wed., 11.10 a.m., and Fri., 1 to 3 p.m. Section B, Mon. and Fri., 11.10 a.m., and Wed., 1 to 3 p.m. Section C, Wed. and Fri., 11.10 a.m., and Mon., 1 to 3 p.m. Section D, Mon. and Wed., 11.10 a.m., and Tues., 1 to 3 p.m. Section E, Mon. and Wed., 5.10 p.m., and Mon., 6.30 to 8.30 p.m. Section F, Mon. and Fri., 5.10 p.m., and Tues., 6.30 to 8.30 p.m. Section G, Mon. and Fri., 5.10 p.m., and Wed., 6.30 to 8.30 p.m.  
Summer Sessions 1933 (3)—Mon., Wed., and Fri., 6.10 p.m., and Tues. and Thurs., 6.30 to 8.30 p.m., nine weeks' term (Cheney).

\*On sabbatical leave 1933-34.

†Physics 11, 12, 13, and 14 constitute a two-year general course in Physics. Students who have credit for high-school Physics from an accredited high school may, with the permission of the Physics Department, omit Physics 11 as a prerequisite to Physics 12 and 13.

‡Before completing registration for Physics 11, 12, or 13, each student must obtain from the representative of the Department an assignment to a class section.

13 *Dynamics, Sound, and Light* (3) Brown and Staff

Prerequisite: Physics 11.\* Material fee, \$4.50. Section A, Mon. and Wed., 11.10 a.m., and Wed., 1 to 3 p.m. Section B, Mon. and Wed., 11.10 a.m., and Tues., 1 to 3 p.m. Section C, Wed. and Fri., 11.10 a.m., and Mon., 1 to 3 p.m. Section D, Mon. and Wed., 5.10 p.m., and Mon., 6.30 to 8.30 p.m. Section E, Wed. and Fri., 5.10 p.m., and Tues., 6.30 to 8.30 p.m.

Summer Sessions 1933 (3)—Mon., Wed., and Fri., 10.40 a.m., and Tues. and Thurs., 9.40 to 11.40 a.m., nine weeks' term (Cheney).

14 *Modern Physical Phenomena* (2) Brown

Prerequisite: Physics 12 and 13. Section A, Wed. and Fri., 11.10 a.m. Section B, Wed. and Fri., 5.10 p.m.

Summer Sessions 1933 (2)—daily except Sat., 5.10 p.m., six weeks' term.

## SECOND GROUP

101 *Electricity and Magnetism* (4) Brown, Thomas

Prerequisite: Mathematics 19 and 20; Physics 12, 13, and 14. Material fee, \$4.50. Mon., Wed., and Fri., 6.10 p.m.; laboratory Thurs., 6.30 to 8.30 p.m.

102 *Mechanics* (4) Seeger, Thomas

Prerequisite: Mathematics 19 and 20; Physics 12, 13, and 14. Material fee, \$4.50. Mon., Wed., and Fri., 6.10 p.m.; laboratory Thurs., 6.30 to 8.30 p.m.

113 *Kinetic Theory and Thermodynamics* (3) Seeger

Prerequisite: Mathematics 19 and 20; Physics 12, 13, and 14. (Offered in alternate years, not in 1933-34.)

114 *Atomic Physics* (3) Seeger

Prerequisite: Mathematics 19 and 20; Physics 12, 13, and 14. (Offered in alternate years, not in 1933-34.)

115 *Oscillations and Acoustics* (3) Seeger

Prerequisite: Mathematics 19 and 20; Physics 12, 13, and 14; Physics 102 or Civil Engineering 131. Tues., Thurs., and Sat., 5.10 p.m.

116 *Optics* (3) Seeger

Prerequisite: Mathematics 19 and 20; Physics 12, 13, and 14. Tues., Thurs., and Sat., 5.10 p.m.

\* Physics 11, 12, 13, and 14 constitute a two-year general course in Physics. Students who have credit for high-school Physics from an accredited high school may, with the permission of the Physics Department, omit Physics 11 as a prerequisite to Physics 12 and 13.  
Before completing registration for Physics 14, 15, and 16, each student must obtain from the representative of the Department an assignment to a class section.

- 133 *Electron Tubes* (3) Brown  
Prerequisite: Physics 101. Material fee, \$9. (Offered in alternate years, not in 1933-34.)
- 134 *Electrical Oscillations and Waves* (3) Brown  
Prerequisite: Physics 101 and 115. Material fee, \$9. (Offered in alternate years, not in 1933-34.)
- 135 *Spectroscopy* (3) Brown  
Prerequisite: Physics 101. Material fee, \$9. Fri., 9.10 a.m. and four hours of laboratory to be arranged.
- 136 *Optical Measurements* (3) Brown  
Prerequisite: Physics 101 and 116. Material fee, \$9. Fri., 9.10 a.m., and four hours of laboratory to be arranged.

## THIRD GROUP

- 213 *Dynamics of Particles and of Rigid Bodies* (3) Seeger  
Prerequisite: Mathematics 131 and 170; Physics 101 and 102. Mon., Wed., and Fri., 6.10 p.m.
- 214 *Dynamics of Elastic and Fluid Media* (3) Brown  
Prerequisite: Physics 115 and 213. Mon., Wed., and Fri., 6.10 p.m.
- 223 *Electrodynamics* (3) Cheney  
Prerequisite: Mathematics 131 and 170; Physics 101 and 102. (Offered in alternate years, not in 1933-34.)
- 224 *Electromagnetic Theory of Light* (3) Brown  
Prerequisite: Physics 116 and 223. (Offered in alternate years, not in 1933-34.)
- 255-56 *Statistical Mechanics* (3-3) Seeger  
Prerequisite: Mathematics 131 and 170; Physics 101, 102, 113, and 114. (Not offered in 1933-34.)
- †257-58 *Quantum Mechanics* (3-3) Seeger  
Prerequisite: Mathematics 131 and 170; Physics 101, 102, 114, and 116. (Offered in alternate years, not in 1933-34.)
- †271-72 *Seminar in Nuclear Physics* (2-2) Seeger  
Fri., 8.10 p.m.



## PHYSIOLOGY

Errett Cyril Albritton, A.B., M.D., *Professor of Physiology, Executive Officer.*

Chester Elwood Leese, Ph.D., *Assistant Professor of Physiology.*

William Ferguson Hamilton, Ph.D., *Assistant Professor of Physiology.*

Alice Calvert Roberts, Sc.D., *Instructor in Physiology.*

George Brewer, A.B., M.D., *Instructor in Physiology.*

116 *General Physiology* (8) Hamilton, Roberts, Brewer  
A study of the fundamentals of Physiology. Lectures and laboratory Mon., Wed., and Fri., 9 to 11 a.m.

118 *Fundamentals of Physiology* Albritton, Leese, Hamilton  
Lectures, demonstrations, and conferences on fundamental principles dealing with General Physiology, including a consideration of biophysics, the application of the physical and mathematical sciences to the study of life phenomena, and their relation to medical science. Special emphasis is placed on a review of the new literature, and training is given in methods of quantitative physiological observations. Three hours a week.

221 *Mammalian and Human Physiology* Albritton and Staff  
Lectures, demonstrations, and laboratory exercises dealing with the physiology of muscle, nerve, reflexes, blood, circulation, respiration, digestion, secretion, absorption, metabolism, the central nervous system, special senses, internal secretion, and reproduction. Experiments, by groups, are made on mammals under anesthesia. Three hours of lectures and ten hours of laboratory work a week.

222 *Introduction to Research* The Staff  
Three hours a week.

223-24 *Seminar* The Staff  
No credit. Hours to be arranged.

225 *Research* Albritton and Staff  
Hours and credits to be arranged.

## POLITICAL SCIENCE

Charles Edward Hill, Ph.D., *Professor of Political Science.*

Warren Reed West, Ph.D., *Associate Professor of Political Science, Executive Officer.*

\*John Albert Tillema, Ph.D., LL.M., *Associate Professor of Political Science.*

†William Crane Johnstone, jr., Ph.D., *Assistant Professor of Political Science.*

John Withrow Brewer, Ph.D., *Instructor in Political Science.*

Minimum requirements for the major: twenty-four semester-hours, in which Political Science 9-10 may be included.

### FIRST GROUP

9-10 *Government of the United States* (3-3)

The Staff

Section A, Mon., Wed., and Fri., 10.10 a.m. Section B, Mon., Wed., and Fri., 11.10 a.m. Section C, Mon., Wed., and Fri., 5.10 p.m. Section D, Tues., Thurs., and Sat., 9.10 a.m. Section E, Tues., Thurs., and Sat., 5.10 p.m.

Summer Sessions 1933 (3)—Political Science 9, daily except Sat., 5.10 p.m., nine weeks' term (West).

### SECOND GROUP

111-12 *Comparative European Governments* (3-3)

Mon., Wed., and Fri., 6.10 p.m.

Summer Sessions 1933 (2)—Political Science 111, daily except Sat., 8.40 a.m., six weeks' term (Tillema).

117 *Political Theory* (3)

(Not offered in 1933-34.)

121-22 *Constitutional Law* (3-3)

Mon., Wed., and Fri., 9.10 a.m.

124 *Legislative Organization* (3)

(Not offered in 1933-34.)

127-28 *Commercial and Maritime Law* (3-3)

Mon., Wed., and Fri., 5.10 p.m.

\* On sabbatical leave 1933-34.

† On leave second semester 1933-34.

Summer Sessions 1933 (3)—Political Science 127, daily except Sat., 7.40 a.m., nine weeks' term (Tillema).

165 *World Politics* (3) Hill  
(Not offered in 1933-34.)

171 *International Organization* (3) Johnstone  
Tues., Thurs., and Sat., 10.10 a.m.  
Summer Sessions 1933 (2)—daily except Sat., 9.40 a.m., six weeks' term.

172 *International Relations* (3) Hill  
Tues., Thurs., and Sat., 10.10 a.m.

181-82 *International Law* (3-3) Hill  
Tues., Thurs., and Sat., 5.10 p.m.

191 *The Near East* (3) Johnstone  
Mon., Wed., and Fri., 10.10 a.m.

192 *The Far East* (3) Johnstone  
(Not offered in 1933-34.)  
Summer Sessions 1933 (3)—daily except Sat., 6.10 p.m., nine weeks' term.

195-96 *Political Institutions of Hispanic America* (3-3) Wilgus  
(Not offered in 1933-34.)

197-98 *Seminar-Conference: Hispanic-American Affairs* (4) Wilgus and Visiting Staff  
Summer Sessions 1933—daily except Sat., 9.40 to 11.30 a.m., six weeks' term.

## THIRD GROUP

209-10 *Seminar* (3-3) West  
Hours to be arranged.

Summer Sessions 1933 (2)—Political Science 209, hours to be arranged, six weeks' term.

281-82 *Seminar in International Law and Relations* (3-3) Hill  
Mon., 8 to 10 p.m.



## PSYCHIATRY

William Alanson White, A.M., M.D., *Professor of Psychiatry, Executive Officer.*

Roscoe Willis Hall, Ph.B., M.D., *Clinical Professor of Psychiatry.*

Nolan Don Charpentier Lewis, M.D., *Clinical Professor of Psychiatry.*

Paul Jacob Ewerhardt, M.D., *Clinical Instructor in Psychiatry.*

John Edward Lind, M.D., *Clinical Instructor in Psychiatry.*

Harriet Elizabeth Twombly, A.B., M.D., *Clinical Instructor in Psychiatry.*

Addison McGuire Duvall, M.D., *Clinical Instructor in Psychiatry.*

Winifred Richmond, Ph.D., *Clinical Instructor in Psychiatry.*

Samuel Alexander Silk, M.D., *Clinical Instructor in Psychiatry.*

136 *Introductory Medical Psychology (elective)* Lewis

The theoretical and practical aspects of the constitution, character, and personality as related to Medicine; the psychological features in various diseases, with special attention to the patient's personality; and the different types of character development and their special ways of adaptation. One hour a week.

246 *Organic Psychopathology (elective)* Hall

The common organic reaction types, illustrated with suitable case presentations. One hour a week.

352 *Psychiatry* White

A course on the major psychoses, illustrated by the presentation of clinical material and utilized for the purpose of explaining the fundamental psychological mechanisms involved. St. Elizabeth's Hospital, one hour a week.

353 *Dispensary Clinic: Personality Adjustments* Ewerhardt

Maladaptations occurring in childhood and youth. One hour a week for eight weeks.

441-42 *Ward Walks* The Staff

The personal examination of the various types of psychosis, and the writing by the student of a formal report of the mental examination, followed by a review of the cases with an instructor. St. Elizabeth's Hospital, two hours a week.

443-44 *Psychoneurosis* Lewis

A course on the descriptive aspects, the etiology, the psychopathology, and the treatment of the various psychoneuroses, such as hypochondria, neurasthenia, organ neuroses, compul-

sions, obsessions, phobias. St. Elizabeth's Hospital, one hour a week for twelve weeks.

445 *Personality Profiles*

Richmond

Utilization of psychological testing methods for the purpose of determining individuals' limitations and special capacities. St. Elizabeth's Hospital, one hour a week for four weeks.

## PSYCHOLOGY

\*Fred August Moss, Ph.D., M.D., *Professor of Psychology, Executive Officer.*

Thelma Hunt, Ph.D., *Assistant Professor of Psychology.*

William Moore Loman, A.M., *Lecturer in Psychology.*

Henry Furness Hubbard, A.M., *Instructor in Psychology.*

Donald Stubbs, A.M., M.D., *Associate in Psychology.*

Ross E. Pollock, jr., A.M., *Teaching Fellow in Psychology.*

Minimum requirements for the major: twenty-four semester-hours, exclusive of Psychology 1 and 2. All courses must be approved by the Executive Officer.

### FIRST GROUP

- 1 *General Psychology* (3) Hubbard, Stubbs, Pollock  
 Section A, Mon., Wed., and Fri., 10.10 a.m. Section B, Tues.,  
 Thurs., and Sat., 11.10 a.m. Section C, Mon., Wed., and Fri.,  
 1.10 p.m. Section D, Mon., Wed., and Fri., 5.10 p.m. Section  
 E, Tues., Thurs., and Sat., 6.10 p.m.

Summer Sessions 1933 (3)—daily except Sat., 7.10 p.m., nine weeks' term (Hubbard).

- 2 *Applied Psychology* (3) Moss, Pollock  
 Section A, Mon., Wed., and Fri., 10.10 a.m. Section B, Tues.,  
 Thurs., and Sat., 11.10 a.m. Section C, Mon., Wed., and Fri.,  
 1.10 p.m. Section D, Mon., Wed., and Fri., 5.10 p.m. Sec-  
 tion E, Tues., Thurs., and Sat., 6.10 p.m.

Summer Sessions 1933 (3)—daily except Sat., 7.40 a.m., nine weeks' term (Hunt).

### SECOND GROUP

- 115 *Physiological Psychology* (3) Stubbs  
 Section A, Tues., Thurs., and Sat., 10.10 a.m. Section B,  
 Mon., Wed., and Fri., 6.10 p.m.

Summer Sessions 1933 (3)—daily except Sat., 6.10 p.m., nine weeks' term (Moss).

- 116 *Clinical Psychology* (3) Moss  
 Section A, Tues., Thurs., and Sat., 10.10 a.m. Section B, Mon.,  
 Wed., and Fri., 6.10 p.m.

\*On sabbatical leave first semester 1933-34.



- 119 *Psychological Tests* (3) Hubbard  
Material fee, \$3. Tues., Thurs., and Sat., 5.10 p.m.  
Psychology 119x—same as Psychology 119, but offered  
second semester. Mon., Wed., and Fri., 10.10 a.m.  
Summer Sessions 1933 (2)—daily except Sat., 10.40 a.m.,  
six weeks' term.
- 131 *Statistics in Psychology and Education* (3) Stubbs  
Mon., Wed., and Fri., 10.10 a.m.  
Summer Sessions 1933 (2)—daily except Sat., 9.40 a.m.,  
six weeks' term (Hunt).
- 139-40 *Personnel Psychology* (3-3) Hubbard  
Tues., Thurs., and Sat., 9.10 a.m.
- 141 *Employment Psychology* (3) Loman  
Tues., Thurs., and Sat., 6.10 p.m.
- 142 *The Psychology of Advertising and Selling* (3) Loman  
Tues., Thurs., and Sat., 6.10 p.m.
- 159-60 *Social Psychology* (3-3) Hubbard  
The principles underlying man's behavior in relation to others.  
Section A, Mon., Wed., and Fri., 9.10 a.m. Section B, Mon.,  
Wed., and Fri., 5.10 p.m.
- 186 *Comparative and Animal Psychology* (3) Stubbs  
Tues., Thurs., and Sat., 5.10 p.m.
- 191-92 *Experimental Psychology* (3-3) Stubbs, Pollock  
Material fee, \$6 a semester. Tues. and Sat., 6.10 p.m.; labora-  
tory Thurs., 6.10 to 8 p.m.

## THIRD GROUP

- 211-12 *Seminar* (3-3) The Staff  
Tues., 7.30 to 9.30 p.m.  
Summer Sessions 1933 (3) -Psychology 211, Tues. and Thurs.,  
8.10 p.m., nine weeks' term (Moss).
- 251-52 *Seminar: Test Construction* (3-3) Hunt  
Thurs., 7.30 to 9.30 p.m.

## PUBLIC SPEAKING

Willard Hayes Yeager, A.M., *Depew Professor of Public Speaking, Executive Officer.*

Henry Goddard Roberts, A.M., *Assistant Professor of Public Speaking.*

Harold Friend Harding, A.M., *Assistant Professor of Public Speaking.*

Constance Connor Brown, A.M., *Associate in Public Speaking.*

Minimum requirements for the major: twenty-four semester-hours, including Public Speaking 107 or 122, 142 or 144, 161, and their prerequisites.

### FIRST GROUP

- 1 *Principles of Effective Speaking* (3) Yeager, Roberts, Harding  
Section A, Mon., Wed., and Fri., 10.10 a.m. Section B, Tues.,  
Thurs., and Sat., 10.10 a.m. Section C, Mon., Wed., and Fri.,  
11.10 a.m. Section D, Tues., Thurs., and Sat., 11.10 a.m. Section  
E, Mon., Wed., and Fri., 5.10 p.m. Section F, Mon.,  
Wed., and Fri., 5.10 p.m. Section G, Mon., Wed., and Fri.,  
6.10 p.m.

Public Speaking 1x—same as Public Speaking 1, but offered  
second semester. Section A, Mon., Wed., and Fri., 9.10 a.m.  
Section B, Mon., Wed., and Fri., 10.10 a.m. Section C, Mon.,  
Wed., and Fri., 5.10 p.m.

Summer Sessions 1933 (3)—daily except Sat., 7.10 p.m.,  
nine weeks' term (Yeager).

- 2 *Persuasive Speaking* (3) Yeager  
Prerequisite: Public Speaking 1. Section A, Mon., Wed., and  
Fri., 10.10 a.m. Section B, Mon., Wed., and Fri., 5.10 p.m.

Public Speaking 2x—same as Public Speaking 2, but offered  
first semester. Mon., Wed., and Fri., 6.10 p.m.

Summer Sessions 1933 (3)—daily except Sat., 6.10 p.m.,  
nine weeks' term.

- 5 *Argumentation* (3) Yeager, Roberts, Harding  
Prerequisite: Public Speaking 1. Mon., Wed., and Fri., 11.10  
a.m.

Public Speaking 5x—same as Public Speaking 5, but offered  
second semester. Section A, Tues., Thurs., and Sat., 10.10 a.m.  
Section B, Tues., Thurs., and Sat., 11.10 a.m. Section C, Mon.,  
Wed., and Fri., 6.10 p.m.

Harding

- 7 *Oral Reading* (3)  
Mon., Wed., and Fri., 10.10 a.m.

Public Speaking 7x—same as Public Speaking 7, but offered second semester. Mon., Wed., and Fri., 11.10 a.m.

## SECOND GROUP

- 107 *Types of Formal Address* (3) Roberts  
(Offered in alternate years, not in 1933-34.)
- 122 *Advanced Argumentation and Debate* (3) Yeager  
Prerequisite: Public Speaking 6. Mon., Wed., and Fri., 11.10 a.m.
- 126 *Advanced Debate Practice* (1) Roberts, Harding  
Admission by permission of the instructors. Hours to be arranged.
- 128 *Advanced Debate Practice* (1) Roberts, Harding  
Prerequisite: Public Speaking 126. Admission by permission of the instructors. Hours to be arranged.
- 141 *Classical Rhetoric and Oratory* (3) Harding  
Prerequisite: six hours of Public Speaking and junior standing. Mon., Wed., and Fri., 5.10 p.m.
- 142 *Survey of British Oratory* (3) Roberts  
Prerequisite: six hours of Public Speaking and junior standing. Mon., Wed., and Fri., 5.10 p.m.
- 144 *Survey of American Oratory* (3) Yeager  
Prerequisite: six hours of Public Speaking and junior standing.  
(Offered in alternate years, not in 1933-34.)  
Summer Sessions 1933 (2)—daily except Sat., 10.40 a.m., six weeks' term.
- 161-62 *Play Production* (3-3) Brown  
Material fee, \$1.50 a semester. Tues. and Thurs., 11.10 a.m. to 12.25 p.m.
- 180 *Oral Methods in Education* (3) Yeager  
(Offered in alternate years, not in 1933-34.)
- 191-92 *History of Rhetorical Theory* (3-3) Harding  
Prerequisite: Public Speaking 141, and 142 or 144. Hours to be arranged.

## THIRD GROUP

- 221-22 *Seminar* (3-3) Yeager  
Hours to be arranged.
- 261-62 *Research* (3-3) The Staff  
Hours to be arranged.



## ROMANCE LANGUAGES AND LITERATURES

George Neely Henning, A.M., Litt.D., *Professor of Romance Languages*

Henry Grattan Doyle, A.M., *Professor of Romance Languages*.

Cecil Knight Jones, B.Litt., *Professorial Lecturer on Spanish-American Literature*.

Merle Irving Protzman, A.M., *Associate Professor of Romance Languages, Executive Officer*.

Alan Thomas Deibert, A.M., *Assistant Professor of Romance Languages*.

James Christopher Corliss, A.M., *Assistant Professor of Romance Languages*.

Irene Cornwell, Ph.D., *Assistant Professor of Romance Languages*.

Franc Paul Gaston Thénau, A.M., *Instructor in Romance Languages*.

Minimum requirements for the major: French—twenty-four semester-hours of second- or third-group courses, except 107-8. Spanish—twenty-four semester-hours of second- or third-group courses, except 107-8. Romance languages—twelve semester-hours of second- or third-group courses, except 107-8, in each language.

Examinations for the purpose of waiving required courses in French and Spanish, as provided on pages 90, 91, 101, and 178, will be both oral and written. Candidates for these examinations should consult the Executive Officer of the Department prior to the date of examination.

### FRENCH

#### FIRST GROUP

##### †1-2 *First-Year French* (3-3)

Section A, Mon., Wed., and Fri., 9.10 a.m. Section B, Tues., Thurs., and Sat., 11.10 a.m. Section C, Mon., Wed., and Fri., 5.10 p.m. Section D, Mon., Wed., and Fri., 6.10 p.m. Section E, Tues., Thurs., and Sat., 9.10 a.m.

Summer Sessions 1933 (3-3)—daily except Sat., 6.10 to 8 p.m., nine weeks' term (Thénau).

##### †3-6 *Second-Year French* (3-3)

Prerequisite: French 1-2 or two years of high-school French. Section A, Mon., Wed., and Fri., 9.10 a.m. Section B, Mon., Wed., and Fri., 10.10 a.m. Section C, Mon., Wed., and Fri., 11.10 a.m. Section D, Mon., Wed., and Fri., 5.10 p.m. Section E, Mon., Wed., and Fri., 6.10 p.m. Section F, Tues., Thurs., and Sat., 9.10 a.m. Section G, Tues., Thurs., and Sat., 6.10 p.m.

French 5x—same as French 5, but offered second semester.  
Hours to be arranged.

Summer Sessions 1933 (3-3)—daily except Sat., 5.10 to 7 p.m., nine weeks' term (Protzman).

- †7-8 *Elementary Conversation\** (3-3) Thénau  
Prerequisite: French 1-2 or two years of high-school French.  
Admission by permission of the instructor. Tues., Thurs., and Sat., 5.10 p.m.

SECOND GROUP

- †107-8 *Advanced Conversation\** (3-3) Thénau  
Prerequisite: French 7-8. Tues., Thurs., and Sat., 6.10 p.m.
- †115-16 *Survey of French Literature* (3-3) Cornwell, Deibert  
Prerequisite: French 5-6. Section A, Mon., Wed., and Fri., 11.10 a.m. (Section A will be conducted in French in so far as practicable.) Section B, Mon., Wed., and Fri., 6.10 p.m.
- †119-20 *Literature of the Sixteenth Century* (3-3) Protzman  
Prerequisite: French 115-16. Tues. and Thurs., 5.10 to 7.25 p.m. (Offered in 1933-34 and alternate years.)
- †121-22 *Literature of the Seventeenth Century* (3-3) Henning  
Prerequisite: French 115-16. Mon., Wed., and Fri., 5.10 p.m. (Offered in 1933-34 and alternate years.)
- †123-24 *Literature of the Eighteenth Century* (3-3) Deibert  
Prerequisite: French 115-16. Mon., Wed., and Fri., 6.10 p.m. (Offered in alternate years, not in 1933-34.)
- †125-26 *The Romantic Movement* (3-3) Henning  
Prerequisite: French 115-16. Mon., Wed., and Fri., 5.10 p.m. (Offered in alternate years, not in 1933-34.)
- †127-28 *Literature of the Nineteenth and Twentieth Centuries* (3-3) Henning  
Prerequisite: French 115-16. Mon., Wed., and Fri., 11.10 a.m. (Offered in 1933-34 and alternate years.)
- †129-30 *French Drama* (3-3) Protzman  
Prerequisite: French 115-16. Tues., Thurs., and Sat., 11.10 a.m. (Not offered in 1933-34.)
- †139-40 *Modern Fiction* (3-3) Henning  
Prerequisite: French 115-16. Mon., Wed., and Fri., 11.10 a.m. (Offered in alternate years, not in 1933-34.)

\*Neither French 7-8 nor 107-8 may be used to complete curriculum requirements of two years of modern languages, nor may they be counted towards the major requirements.

## THIRD GROUP

- †227-28 *Seminar in Modern French Literature* (3-3) Henning  
Prerequisite: a second-group course in French literature. Hours to be arranged.
- †249-50 *Seminar in Old French* (3-3) Doyle  
Prerequisite: elementary knowledge of Latin and a second-group course in French literature. Hours to be arranged. (Offered in 1933-34 and alternate years.)
- †251-52 *Seminar in Middle French* (3-3) Doyle  
Prerequisite: a second-group course in French literature. Hours to be arranged. (Not offered in 1933-34.)

## SPANISH

## FIRST GROUP

- †1-2 *First-Year Spanish* (3-3) The Staff  
Section A, Mon., Wed., and Fri., 9.10 a.m. Section B, Mon., Wed., and Fri., 10.10 a.m. Section C, Mon., Wed., and Fri., 5.10 p.m. Section D, Tues., Thurs., and Sat., 9.10 a.m. Section E, Tues., Thurs., and Sat., 5.10 p.m.  
Spanish 1x—same as Spanish 1, but offered second semester. Hours to be arranged.  
Summer Sessions 1933 (3-3)—daily except Sat., 6.10 to 8 p.m., nine weeks' term (Deibert).
- †5-6 *Second-Year Spanish* (3-3) The Staff  
Prerequisite: Spanish 1-2 or two years of high-school Spanish.  
Section A, Mon., Wed., and Fri., 9.10 a.m. Section B, Mon., Wed., and Fri., 10.10 a.m. Section C, Mon., Wed., and Fri., 5.10 p.m. Section D, Mon., Wed., and Fri., 6.10 p.m. Section E, Tues., Thurs., and Sat., 11.10 a.m.  
Summer Sessions 1933 (3-3)—daily except Sat., 5.10 to 7 p.m., nine weeks' term (Doyle).
- †7-8 *Elementary Conversation\** (3-3)  
Prerequisite: Spanish 1-2 or two years of high-school Spanish.  
Tues., Thurs., and Sat., 5.10 p.m.

## SECOND GROUP

- †107-8 *Advanced Conversation\** (3-3)  
Prerequisite: Spanish 7-8. Hours to be arranged. (Not offered in 1933-34.)

\*Neither Spanish 7-8 nor 107-8 may be used to complete the curriculum requirements of two years of modern languages, nor may they be counted towards the major requirements.



- †115-16 *Survey of Spanish Literature* (3-3) Doyle, Corliss  
Prerequisite: Spanish 5-6. Section A, Mon., Wed., and Fri., 11.10 a.m. Section B, Tues., Thurs., and Sat., 6.10 p.m.
- †121-22 *Spanish Literature of the Golden Age* (3-3) Doyle  
Prerequisite: Spanish 115-16. Mon., Wed., and Fri., 5.10 p.m.  
(Offered in 1933-34 and alternate years.)
- †125-26 *Modern Spanish Literature* (3-3) Corliss  
Prerequisite: Spanish 115-16. Mon., Wed., and Fri., 9.10 p.m.  
(Offered in alternate years, not in 1933-34.)
- †127-28 *Spanish-American Literature* (3-3) Jones  
Prerequisite: Spanish 115-16. Tues., Thurs., and Sat., 5.10 p.m. (Not offered in 1933-34.)
- 129 *The Literature of Argentina and Uruguay* (3) Jones  
Prerequisite: Spanish 115-16. Tues. and Thurs., 6.10 to 7.25 p.m. (Offered in 1933-34 and alternate years.)
- 130 *The Modernist Movement in Spanish America* (3) Jones  
Prerequisite: Spanish 115-16. Tues. and Thurs., 6.10 to 7.25 p.m. (Offered in 1933-34 and alternate years.)
- 176 *Teaching of Romance Languages* (2) Doyle  
Current methods and materials. Hours to be arranged.

## THIRD GROUP

- †225-26 *Seminar in Spanish Literature* (3-3) Jones  
The Neoclassical Movement and the dawn of Romanticism.  
Prerequisite: a second-group course in Spanish literature.  
Hours to be arranged. (Offered in 1933-34 and alternate years.)
- †227-28 *Seminar in Spanish-American Literature* (3-3) Jones  
Prerequisite: a second-group course in Spanish; Spanish 127-28 is recommended. Hours to be arranged. (Offered in alternate years, not in 1933-34.)
- †249-50 *Seminar in Old Spanish* (3-3) Doyle  
Prerequisite: elementary knowledge of Latin and a second group course in Spanish literature. Hours to be arranged. (Offered in alternate years, not in 1933-34.)

## SOCIOLOGY

Robert Russ Kern, A.B., *Professor of Urban Sociology.*  
 Dudley Wilson Willard, Ph.D., *Professor of Sociology, Executive Officer.*  
 Elwood Street, A.M., *Lecturer in Sociology.*  
 J. Blaine Gwin, A.B., *Lecturer in Sociology.*

Minimum requirements for the major: twenty-four semester-hours of Sociology, including Sociology 27-28.

### FIRST GROUP

- 27-28 *Development and Organization of Social Life* (3-3) Willard  
 Section A, Mon., Wed., and Fri., 10.10 a.m. Section B, Mon.,  
 Wed., and Fri., 5.10 p.m.  
 Summer Sessions 1933 (3)—Sociology 28, daily except Sat.,  
 6.10 p.m., nine weeks' term.
- 71-72 *Survey of Social Problems* (3) Willard  
 (Not offered in 1933-34.)  
 Summer Sessions 1933—daily except Sat., 7.10 p.m., nine  
 weeks' term.

### SECOND GROUP

- 111 *Educational Sociology* (2) Willard  
 Summer Sessions 1933—daily except Sat., 10.40 a.m., six weeks'  
 term.
- 113-14 *Sociology of the Professions* (3-3) Willard  
 For students planning to enter the professions. Mon., Wed.,  
 and Fri., 9.10 a.m.
- 115-16 *Administration of Private and Public Social Work* (3-3) Street  
 Wed., 7.10 to 9 p.m., and field work.
- 147-48 *Urban Sociology and City Planning* (3-3) Kern  
 Mon., Wed., and Fri., 11.10 a.m.
- 155-56 *Social Case Work* (3-3) Gwin  
 Primarily for those with case-work experience. Tues. and  
 Thurs., 6.10 to 7.30 p.m.
- 165-66 *History of Social Work and Modern Social Agencies* (3-3) Street  
 (Not offered in 1933-34.)

- 173-74 *Problems of Crime and Delinquency* (3-3) Willard  
(Not offered in 1933-34.)
- 175-76 *Modern Family and Child-Welfare Problems* (3-3)  
Mon., Wed., and Fri., 6.10 p.m.
- 177-78 *Population Problems* (3-3) Willard  
Mon., Wed., and Fri., 11.10 a.m.
- 191-92 *Proseminar* (2-2) Willard  
Current sociological literature. Mon., 2.10 to 4 p.m.

## THIRD GROUP

- 211-12 *Modern Social Theory and Research* (3-3) Willard  
(Not offered in 1933-34.)
- 215-16 *Seminar* Willard  
Community studies, review of recent studies, and original projects. Hours and credits to be arranged.



## SURGERY

Charles Stanley White, M.D., *Professor of Surgery, Executive Officer.*  
Daniel LeRay Borden, A.M., M.D., *Associate Professor of Surgery.*  
James Farnandis Mitchell, A.B., M.D., *Clinical Professor of Surgery.*  
Harry Hyland Kerr, M.D.C.M., *Clinical Professor of Surgery.*  
Paul Stirling Putzki, M.D., *Assistant Professor of Surgery.*  
Arch Lockhart Riddick, A.B., M.D., *Assistant Professor of Surgery.*  
William Berry Marbury, M.D., *Assistant Professor of Surgery.*  
Custis Lee Hall, M.D., *Assistant Professor of Surgery.*  
John Hugh Lyons, M.S., M.D., *Associate in Surgery.*  
Cline N. Chipman, M.D., *Associate in Surgery.*  
Guy Whitman Leadbetter, B.S., M.D., *Associate in Surgery.*  
William Warren Sager, M.S., M.D., *Associate in Surgery.*  
Benjamin Franklin Dean, jr., A.B., M.D., *Associate in Surgery.*  
Alec Horwitz, M.S., M.D., *Associate in Surgery.*  
Harold Walter Krogh, D.D.S., *Associate in Surgery.*  
Charles Wilbur Hyde, M.D., *Clinical Instructor in Surgery.*  
Francis George Speidel, M.D., *Clinical Instructor in Surgery.*  
Philip Oscar Pelland, M.D., *Clinical Instructor in Surgery.*  
Stewart Maxwell Grayson, M.D., *Clinical Instructor in Surgery.*  
James Houston Hawfield, M.D., *Clinical Instructor in Surgery.*  
Nathan Norman Smiler, M.D., *Clinical Instructor in Surgery.*  
Richard Knight Thompson, D.D.S., *Clinical Instructor in Surgery.*  
Edward Alexander Cafritz, M.D., *Clinical Instructor in Surgery.*  
Hazen Eugene Cole, B.S., M.D., *Clinical Instructor in Surgery.*  
Harry Kaplan, D.D.S., *Clinical Instructor in Surgery.*  
William Wiley Chase, A.B., M.D., *Clinical Instructor in Surgery.*  
Valentine Martin Hess, M.D., *Clinical Instructor in Surgery.*  
Julius Salem Neviaser, A.B., M.D., *Clinical Instructor in Surgery.*  
James Lloyd Collins, A.B., M.D., *Clinical Instructor in Surgery.*

### 126 *Introductory Surgical Clinics*

Obvious and classical cases are presented to the students, whose background of the structure of the body serves to give them an understanding of the cases. Two hours a week.

White and Staff

**325-26 Surgical Technique****Marbury**

This course comprises a series of demonstrations of surgical instruments and appliances, with a practical demonstration of their uses. The preparation of the patient, the operating room, the materials commonly used, and the duties of each member of an operating team are carefully presented, with the detailed consideration of minor operations and the post-operative management and complications. As far as possible the lectures will be supplemented by clinical application. One hour a week for twenty weeks.

**327-28 General Surgery****Borden**

Course of lectures and recitations covering General Surgery as applied to the neck, thorax, gastro-intestinal tract, and the bones and skeletal muscles. Two hours a week.

**329 Oral Surgery (elective)****Krogh**

This course is designed to acquaint the student with the surgical aspects of the teeth and jaw and their general relationship to the other aspects of Surgery. One hour a week for five weeks.

**330 Anesthesia (elective)****Chipman**

Theoretical and practical instruction is given in the use of general and local anesthetic agents. One hour a week for nine weeks.

**331-32 Dispensary Clinic****The Staff**

Dispensary instruction in the principles and practice of Surgery. Instruction of small groups is given in General Surgery and the specialties, including anesthesia, neurosurgery, orthopedics, proctology, and oral surgery. University Hospital, one section, two and one-half hours daily; Emergency Hospital, one section, one and one-half hours daily; Providence Hospital, one section, two and three-fourths hours three times a week; Children's Hospital, one section, one and three-fourths hours a week.

**333-34 General Surgery****White, Putzki, Riddick**

Course of lectures and recitations covering Surgery as applied to the neck, thorax, gastro-intestinal tract, and the bones and skeletal muscles. Two hours a week.

**416 Orthopedics (elective)****Hall**

The course includes the etiology, pathology, symptomatology, and treatment of congenital and acquired diseases of the bones and joints, and the clinical instruction in treatment and in the use of appliances for the correction of deformities. One hour a week for sixteen weeks.

- 417-18 *Private Practice of Surgery (elective)* White and Staff  
Students who elect this course will be given instruction in the private offices of various members of the staff, where they may observe the private practice of surgery.
- 419 *General Surgery* Leadbetter  
One hour a week.
- 421-22 *Surgical Clinic* White, Mitchell, and Staff  
Demonstration to the entire class of the various surgical diseases, with stress upon the differential diagnosis and pre- and post-operative care. University Hospital, two hours a week for thirty-two weeks; Gallinger Hospital, four sections, one and one-half hours twice a week for sixteen weeks and one hour a week for sixteen weeks; Emergency Hospital, one hour three times a week; University Hospital, one hour three times a week.
- 423-24 *Ward Walks* The Staff  
Well-organized group ward-rounds are made with the visiting physicians and their respective staffs in the course of their usual rounds. Emergency Hospital, one hour three times a week; University Hospital, one hour three times a week.
- 425-26 *Clinical Clerkship* The Staff  
The students are assigned and required to thoroughly work up the cases for diagnosis and treatment. Gallinger Hospital, two and one-half hours three times a week; Emergency Hospital, two sections, two hours three times a week; University Hospital, two sections, two hours three times a week; St. Elizabeth's Hospital, one fourth of the class, two hours a week.



## UROLOGY

- Francis Randall Hagner, M.D., *Professor of Urology, Executive Officer.*  
 Frederick August Reuter, M.D., *Clinical Professor of Urology.*  
 Homer Gifford Fuller, Ph.B., M.D., *Clinical Professor of Urology.*  
 Thomas Carlton Thompson, B.S., M.D., *Associate Professor of Urology.*  
 Alan Jeffries Chenery, M.D., *Associate in Urology.*  
 Charles Perry Howze, M.D., *Associate in Urology.*  
 Miles Parker Omohundro, M.D., *Associate in Urology.*  
 Lyle Millan Mason, M.D., *Clinical Instructor in Urology.*  
 Gilbert Ottenberg, A.M., M.D., *Clinical Instructor in Urology.*  
 Norvell Belt, A.B., M.D., *Clinical Instructor in Urology.*  
 William Glenn Young, M.D., *Clinical Instructor in Urology.*

### 381-82 Clinics

Reuter and Staff

Clinical demonstration and teaching in the dispensary, with special attention given to venereal cases. Emergency and University Hospitals, one part of each section daily.

### 471-72 Urology

Thompson

A systematic course of lectures covering the entire field of Urology, including diagnosis, treatment, and morbid pathology. One hour a week.

### 473-74 Clinics

Hagner, Fuller, Chenery, Thompson

Clinical teaching and demonstrations on the care of urological cases, with special emphasis on the pre- and post-operative management. Gallinger Hospital, one hour a week for twenty-eight weeks. Operative clinics and clinical teaching, including cystoscopy and the use of instruments. Garfield Hospital, one fourth of the class, one and one-half hours a week.

### 476 Urology Seminar (elective)

Reuter

Special problems, technique, and instrumentation in genito-urinary diseases. One hour a week.

## ZOOLOGY

Paul Bartsch, Ph.D., *Professor of Zoology, Executive Officer.*

Mary Quick Bowman, A.M., *Instructor in Zoology.*

Ralph Jordan Bailey, Ph.D., *Instructor in Zoology.*

William Thomas McClosky, A.B., *Associate in Zoology.*

Charles Holcomb Popenoe, B.S., *Associate in Zoology.*

Eugenia Galtsoff, *Associate in Zoology.*

Katherine Elizabeth Parker, A.M., M.D., *Associate in Zoology.*

Minimum requirements for the major, twenty-four semester-hours of Zoology, including Zoology 1-2. Premedical students are required to take Zoology 1-2 and 3, and they may elect a second-group course in Zoology in the second semester of the second year.

### FIRST GROUP

- † 1-2 *Introduction to Zoology* (1-1) Bartsch and Staff  
Material fee, \$6 a semester; breakage deposit, \$10. Section A, Mon., 6.10 p.m. Section B, Tues., 9.10 a.m. Laboratory: section A, Wed. and Fri., 7.10 to 9.20 p.m.; section B, Mon. and Wed., 9.10 to 11 a.m.; section C, Wed. and Fri., 1.10 to 3 p.m.; section D, Wed. and Fri., 3.10 to 5 p.m.; section E, Tues. and Thurs., 3.10 to 5 p.m.; section F, Tues. and Thurs., 10.10 a.m. to 12.

Summer Sessions 1933 (3-3)—daily except Sat., 5.10 p.m. and 6.10 to 9 p.m., nine weeks' term (Bartsch, Parker).

- 3 *Mammalian Anatomy* (3) The Staff  
Material fee, \$6. Fri., 5.10 p.m. Laboratory: section A, Mon. and Wed., 5.10 to 7 p.m.; section B, Tues. and Thurs., 1.10 to 3 p.m.

Summer Sessions 1933 (3)—daily except Sat., 5.10 p.m.; laboratory hours to be arranged; six weeks' term (Bowman).

- 5 *Field Zoology* (4) Bartsch  
Summer Sessions 1933—daily except Sat., 7 to 9 a.m., and Sat., 1 to 6 p.m., six weeks' term.

### SECOND GROUP

- 127 *Heredity* (3) Bailey  
Prerequisite: Botany 1 and 2 or Zoology 1-2. Mon., Wed., and Fri., 5.10 p.m.

133-34 *Ornithology* (2-2) Bartsch  
The birds of eastern North America. Fri., 6.10 p.m.; laboratory in the National Museum, hours to be arranged.

137 *Histology* (3) Bartsch, Galtsoff  
Prerequisite: Zoology 1-2. Material fee, \$4.00; breakage deposit, \$10. Fri., 5.10 p.m. Laboratory: section A, Mon. and Wed., 5.10 to 7 p.m.; section B, Tues. and Thurs., 10.10 a.m. to 12.

138 *Histologic Technique* (3) Bartsch, Galtsoff  
The various methods of preparing tissues for sectioning, staining, and permanent preservation. Prerequisite: Zoology 137. Material fee, \$6. Wed., 5.10 p.m.; laboratory Mon. and Fri., 5.10 to 7 p.m.

151-52 *Entomology* (3-3) Popenoe  
Prerequisite: Zoology 1-2. Material fee, \$4.50; breakage deposit, \$10. Wed., 5.10 p.m.; laboratory Mon. and Fri., 5.10 to 7 p.m.

156 *Embryology* (3) Bailey  
Prerequisite: Zoology 1-2. Material fee, \$6; breakage deposit, \$10. Tues., 5.10 p.m.; laboratory hours to be arranged.

186 *Genetics* (3) Bailey  
Prerequisite: Zoology 127. Admission by permission of the instructor. Material fee, \$6. Hours to be arranged.

### THIRD GROUP

1251-52 *Seminar* (2-2) Bartsch  
Tues., 8 to 10 p.m.

1253-54 *Research* Bartsch  
Hours and credits to be arranged.

Summer Sessions 1933—Zoology 253, hours and credits to be arranged.





UNIVERSITY ORGANIZATIONS





## ALUMNI AND ALLIED ASSOCIATIONS

### THE GENERAL ALUMNI ASSOCIATION

The objects of this Association are to unite the graduates in closer sympathy and to promote the general welfare of the University. The following persons are eligible to *active* membership: graduates of any College, School, or Division of the University; holders of honorary degrees from the University; and members of the Board of Trustees and of the Faculty of the University. Any person who has matriculated, who has been in regular attendance for one year, and who has left the University in good standing, is eligible to *associate* membership. The annual meeting is held during Commencement Week.

The office of the Executive Secretary of the Association is located on the first floor of building M of the University. Alumni are urged to keep the Secretary informed of changes of address or occupation and to supply information with regard to their fellow alumni.

1932-33

#### PRESIDENT

Daniel LeRay Borden, M.D. 1912, B.S. in Med. 1916, A.M. 1917; The Rochambeau, Washington, D. C.

#### VICE PRESIDENTS

Charles Silas Baker, LL.B. 1914 (A.B. 1911, Cornell University; A.M. 1912, Columbia University); Shoreham Building, Washington, D. C.

Ella Morgan Austin Enlows (Mrs. Harold Franklin Enlows), A.B. 1915, M.S. 1916, Ph.D. 1923 (M.D., Johns Hopkins University); The Rochambeau, Washington, D. C.

Malcolm Graeme Gibbs, Phar.D. 1902; 77 P Street NE., Washington, D. C.

Agnes Inch Kinnear (Mrs. Francis D. Kinnear), A.B. 1923; Eliot Junior High School, Washington, D. C.

Robert C. McCullough, D.D.S. 1916; 1801 Eye Street NW., Washington, D. C.

Emmett William Price, D.V.M. 1918; 3718 R Street NW., Washington, D. C.

Frederick August Reuter, M.D. 1916; 1835 Eye Street NW., Washington, D. C.

Ernest Ruebsam, C.E. 1892; Union Trust Building, Washington, D. C.

Paul Sperry, A.B. 1902; 1824 Park Road NW., Washington, D. C.

## TREASURER

Ermyntrude Vaiden Stearns (Mrs. Robert M. Stearns), A.B. 1927, A.M. 1931; 1424 Iris Street NW., Washington, D. C.

## ASSISTANT TREASURER

Marguerite McDonaugh, A.B. 1928; 3222 Nineteenth Street NW., Washington, D. C.

## EXECUTIVE SECRETARY

Marcelle LeMénager, A.B. 1928; The University.

## EXECUTIVE COMMITTEE

- May Paul Bradshaw, A.B. 1909, A.M. 1913; Roosevelt High School, Washington, D. C.  
 John Robert DeFarges, D.D.S. 1901; 1726 Eye Street NW., Washington, D. C.  
 Lyman Dishman, LL.B. 1925, A.B. 1931; 1707 Massachusetts Avenue NW., Washington, D. C.  
 Jessie Fant Evans (Mrs. Joshua Evans, jr.), A.B. 1913, Ed.D. 1932; 3405 Lowell Street NW., Washington, D. C.  
 Robert Fleming Fleming, B.S. in E.E. 1908 (M.E. 1910, Cornell University); Woodward Building, Washington, D. C.  
 Charles Benjamin Gass, Phar.D. 1911; 1100 Fourteenth Street NW., Washington, D. C.  
 Frank A. Hornaday, B.S. 1907, M.D. 1910, M.S. 1928; The Mayflower, Washington, D. C.  
 Walton Colcord John, A.B. 1914, A.M. 1915, Ph.D. 1918; Office of Education, Department of the Interior, Washington, D. C.  
 James Robert Kirkland, A.B. 1927, LL.B. 1928, LL.M. 1929; 229 Rhode Island Avenue NW., Washington, D. C.  
 Matthew Houston O'Brien, LL.B. 1922, LL.M. 1923 (A.B. 1916, Wesleyan University); Investment Building, Washington, D. C.  
 The Honorable James McPherson Proctor, LL.B. 1904; Associate Justice, Supreme Court of the District of Columbia, Washington, D. C.  
 John Alton Reed, M.D. 1922, A.B. 1928; 1720 Connecticut Avenue NW., Washington, D. C.

THE COLUMBIAN-GEORGE WASHINGTON LAW SCHOOL  
 ASSOCIATION

The Columbian-George Washington Law School Association is the organization of graduates of the University Law School. Its purposes, as stated in the constitution, are: (1) to promote high standards of legal education; (2) to keep the alumni of the Law School in closer touch with

one another and especially with members of their own classes; (3) to gather and publish at intervals information as to the whereabouts and activities of these alumni; and (4) to further the interests of the Law School.

1932-33

**PRESIDENT**

Matthew Houston O'Brien, LL.B. 1922, LL.M. 1923 (A.B. 1916, Wesleyan University); Investment Building, Washington, D. C.

**VICE PRESIDENTS**

William L. Symons, LL.B. 1895, LL.M. 1898, M.P.L. 1908; McLachlen Building, Washington, D. C.

Clarence A. Miller, LL.B. 1919, LL.M. 1921; Union Trust Building, Washington, D. C.

Olive Geiger, LL.B. 1921; Bond Building, Washington, D. C.

**SECRETARY-TREASURER**

Albert Earle Conradi, LL.B. 1932 (A.B. 1923, Cornell University; M.B.A. 1926, University of Pennsylvania); Chandler Building, Washington, D. C.

**EXECUTIVE COMMITTEE**

H. Clay Espey, LL.B. 1923, LL.M. 1924; 1107 Woodward Building, Washington, D. C.

Vivian Simpson, A.B. 1925, LL.B. 1927; Rockville, Md.

Thomas Lodge, Columbian Building, Washington, D. C.

**THE GEORGE WASHINGTON UNIVERSITY MEDICAL SOCIETY**

The George Washington University Medical Society was established in 1905 by alumni of the School of Medicine. Its purposes are to cultivate friendly relations between the alumni and members of the Faculty by means of social gatherings; to advance medical science; and to further the interests of the University in general.

1932-33

**PRESIDENT**

John Alton Reed, M.D. 1922, A.B. 1928; 1720 Connecticut Avenue NW., Washington, D. C.

**VICE PRESIDENT**

Katharine Antoinette Chapman, A.B. 1922, M.D. 1925; Kensington, Md.



## SECRETARY

Harry Arnold Hull McNitt, M.D. 1925; B.S. in Med. 1925, A.M. 1928;  
The Rochambeau, Washington, D. C.

## TREASURER

William Raymond Thomas, M.D. 1925; 3023 Fourteenth Street NW,  
Washington, D. C.

## THE SCHOOL OF EDUCATION ASSOCIATION

This Association was organized in 1932 by alumni of the School of  
Education.

1932-33

## PRESIDENT

Agnes Inch Kinnear (Mrs. Francis D. Kinnear), A.B. 1923; Eliot Junior  
High School, Washington, D. C.

## SECRETARY

Anne M. Goding; The Netherlands Apartment, Washington, D. C.

## REGIONAL ASSOCIATIONS

1932-33

## THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF BALTIMORE

## PRESIDENT

Judge Harvey Cleveland Bickel, LL.B. 1914; 110 East Lexington Street,  
Baltimore, Md.

## THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF CHICAGO

## PRESIDENT

Colonel Gordon Strong, LL.B. 1890, LL.M. 1894; The Republic, Chicago,  
Ill.

## SECRETARY

Colonel Howard Wilkinson Hodgkins, B.S. in C.E. 1913, LL.B. 1916;  
First National Bank Building, Chicago, Ill.

## TREASURER

Roy C. Osgood, LL.B. 1903; First Trust Savings Bank, Chicago, Ill.



THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF CLEVELAND

PRESIDENT

Sterling Parks, LL.B. 1894; 1226 Engineers Building, Cleveland, Ohio.

VICE PRESIDENT

Paca Oberlin, LL.B. 1903, LL.M. 1904, M.Dip. 1905, D.C.L. 1911; 3259 Dellwood Avenue, Cleveland, Ohio.

SECRETARY-TREASURER

Lillian C. Belden, LL.B. 1924; 1531 Standard Bank Building, Cleveland, Ohio.

EXECUTIVE COMMITTEE

Hadley Fairfield Freeman, LL.B. 1918; 1310 Hanna Building, Cleveland, Ohio.

Francis Gilfoy, M.D. 1929; 1208 Medical Arts Building, Cleveland, Ohio.

Maude Lillian Stanback, A.B. 1925; New York Life Insurance Company, 615 Hanna Building, Cleveland, Ohio.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF DENVER

PRESIDENT

Leslie Emmett Bratton, LL.B. 1915 (Graduate 1907, United States Naval Academy), Commander, U.S.N.; Capitol Life Building, Denver, Colo.

SECRETARY-TREASURER

Ronald Alexander Silver, A.B. 1925; The Mountain States Telephone and Telegraph Company, 1416 Curtis Street, Denver, Colo.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB  
OF KANSAS CITY, MISSOURI

PRESIDENT

Edward L. Scheufler, A.B. 1922, LL.B. 1924; 1501-2 Commerce Building, Kansas City, Mo.

VICE PRESIDENT

C. Earl Hovey; Federal Reserve Bank Building, Kansas City, Mo.

SECRETARY

Conger R. Smith, LL.B. 1911; Grand Avenue Temple Building, Kansas City, Mo.

## TREASURER

Albert F. Hillix, LL.B. 1924; 1112 Commerce Building, Kansas City, Mo.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB  
OF LOS ANGELES

## PRESIDENT

Kenneth Carson Wiseman, LL.B. 1922; Subway Terminal Building,  
Los Angeles, Calif.

## SECRETARY

Mrs. David R. Covell; 1217 Milan Avenue, South Pasadena, Calif.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF MILWAUKEE

## PRESIDENT

Eleanore Cushing-Lippitt, M.D. 1916; 425 East Wisconsin Avenue,  
Milwaukee, Wis.

## VICE PRESIDENT

Henry George Disch, LL.B. 1898, LL.M. 1899; 205 East Wisconsin  
Avenue, Milwaukee, Wis.

## RECORDING SECRETARY

Arnold Clarence Otto, A.B. 1911, LL.B. 1913; 1914 North Prospect  
Avenue, Milwaukee, Wis.

## CORRESPONDING SECRETARY

Mrs. Benjamin Glassberg; 2320 East Bradford Avenue, Milwaukee, Wis.

## TREASURER

Ralph Waldo Brown, LL.B. 1918; 314 Wells Building, Milwaukee, Wis.

## DIRECTORS

Gail Fitch Moxon, A.B. 1917; 3016 North Hackett Avenue, Milwaukee,  
Wis.

Moriss Waldmar Sherwood, M.D. 1914; 238 West Wisconsin Avenue,  
Milwaukee, Wis.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF NEW YORK

## PRESIDENT

Harry Turner Newcomb, LL.B. 1891, LL.M. 1892; 32 Nassau Street,  
New York City.

FIRST VICE PRESIDENT

Fritz von Briesen, LL.M. 1901, D.C.L. 1922; 50 Church Street, New York City.

SECOND VICE PRESIDENT

Wallace D. McLean, LL.B. 1898; 469 Fifth Avenue, New York City.

SECRETARY

Mary Esther Croggon, LL.B. 1929; 67 Park Avenue, New York City.

TREASURER

Ralph H. Riddleberger, LL.B. 1897, LL.M. 1898; 33 West Forty-second Street, New York City.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF PHILADELPHIA

PRESIDENT

William Ellis Zimmerman, A.B. 1922; 109 East Main Street, Lansdale, Pa.

SECRETARY

George Stoughton Ellis, LL.B. 1923; 737-38 Commercial Trust Building, 16 South Broad Street, Philadelphia, Pa.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF RICHMOND

PRESIDENT

Henry Ernest Ketner, LL.B. 1922; State Corporation Commission, Richmond, Va.

VICE PRESIDENT

Gilbert Karl Ludwig, B.S. in M.E. 1926; 1112 Roseneath Road No. 6, Richmond, Va.

SECRETARY-TREASURER

Howard Mason Baggett, A.B. 1927; Union Life Insurance Company, 205 Law Building, Richmond, Va.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB  
OF SAN FRANCISCO

PRESIDENT

F. Howard Seely, B.S. 1888; 57 Post Street, San Francisco, Calif.

## SECRETARY

Orville R. Vaughn, LL.B. 1916; 1601 Van Ness Avenue, San Francisco, Calif.

## THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF UTAH

## PRESIDENT

William Francis Beer, M.D. 1892; Boston Building, Salt Lake City, Utah.

## VICE PRESIDENT

John Jensen, LL.B. 1909; 920 Continental Bank Building, Salt Lake City, Utah.

## SECRETARY-TREASURER

Moses Logan Rich, LL.B. 1928; State Capitol Building, Salt Lake City, Utah.

## THE GRADUATE ENDOWMENT FUND

The Graduate Endowment Fund was founded by the Classes of 1926 with the object of providing endowment to be used for the development of the University. Membership is limited to seniors and graduates who sign a pledge of \$100, payable annually in ten equal instalments.

The pledge notes and funds are held in trust by the District National Bank in Washington, D. C. When the principal reaches the sum of \$100,000 the Board of Administrators of the Fund may pay to the University such sums as it may vote for erection of buildings, acquisition of sites, maintenance, and purchase of equipment. At no time may money be drawn so as to leave a balance of less than \$50,000 on deposit.

On request the Alumni Secretary of the University will furnish pledge blanks to alumni.

## BOARD OF ADMINISTRATORS\*

Dorothy Ruth, A.B. 1930, *Chairman*: 2940 Brandywine Street NW., Washington, D.C.

Arthur Frederick Johnson, M.E. 1915; 37 Oakridge Boulevard, Alexandria, Va.

Gilbert Karl Ludwig, B.S. in M.E. 1926; Continental Oil Company, Richmond, Va.

Frank Harvey Weitzel, A.B. 1931; 1656 Twenty-ninth Street NW., Washington, D. C.

Firman Powell Lyle, B.S. in E.E. 1922; 1414 Girard Street NW., Washington, D. C.

Marcelle LeMénager, A.B. 1928, *Executive Secretary*: The University.

\* Elected by the subscribers.



### THE COLUMBIAN WOMEN

The objects of this organization are (1) the promotion of acquaintanceship among its members; (2) the advancement of women by the founding of scholarships in the various departments of the University, and by every other possible means; and (3) the promotion of the interests of the University in every way.

#### MEMBERSHIP

1. The following persons shall be eligible for active membership:  
(a) Any woman who for one year has been a regularly registered student in The George Washington University, provided that she shall have received credit for thirty hours of work. (b) Any woman member of the Faculties, Council, or Board of Trustees; any woman on the administrative staff; the wife or recognized head of the household of any member of the Faculties, Council, Board of Trustees, or the administrative staff.  
(c) Any woman recipient of an honorary degree from the University.

2. The following persons shall be eligible for associate membership:  
(a) Graduate women students upon their registration in the University.  
(b) Wives of graduate men students upon the registration of the latter in the University.

Associate members shall have all privileges and obligations of membership except those of voting and holding office.

1932-33

#### PRESIDENT

Elizabeth Peet, A.M.; Gallaudet College, Washington, D. C.

#### VICE PRESIDENTS

Harriet E. Garrels, A.B.; 1615 Kenyon Street NW., Washington, D. C.  
Mrs. Joseph W. Cox; 1850 Monroe Street NW., Washington, D. C.

#### RECORDING SECRETARY

Mrs. Willard Hayes Yeager; 1604 Forty-fourth Street NW., Washington, D. C.

#### CORRESPONDING SECRETARY

Margaret Maize, A.B.; 1921 Kalorama Road NW., Washington, D. C.

#### ASSISTANT CORRESPONDING SECRETARY

Dorothy Ruth, A.B.; 2940 Brandywine Street NW., Washington, D. C.

## TREASURER

Mildred Getty, A.B.; Silver Spring, Md.

## ASSISTANT TREASURER

Mrs. Russell McNitt; 3058 Porter Street NW., Washington, D. C.

## HISTORIAN

Margaret Pepper, A.M.; 1734 P Street NW., Washington, D. C.

## STUDENT ORGANIZATIONS

### HONOR SOCIETIES

*Alpha Lambda Delta*.—A national honor society for freshman women who attain a scholastic average of at least *B* in all work and *A* in 50 per cent.

*Delphi*.—Intersorority society.

*Delta Sigma Rho*.—Debating.

*Gamma Eta Zeta*.—Journalistic, for women.

*Gate and Key*.—Interfraternity society.

*Hourglass Honor Society*.—A local honor society for women for the purpose of promoting high scholarship and an interest in student affairs among the women of the University.

*Omicron Delta Kappa*.—National honorary fraternity emphasizing leadership in extracurricular activities.

*Order of the Coif*.—A national honor society the purpose of which is "to foster a spirit of careful study and to mark in a fitting manner those who have attained a high grade of scholarship." Students are elected each year from the highest ranking 10 per cent of the senior Law class.

*Phi Eta Sigma*.—A national honor society for freshman men who attain a scholastic average of at least *B* in all work and *A* in 50 per cent.

*Pi Delta Epsilon*.—Journalistic, for men.

*Pi Gamma Mu*.—National social-science honor society.

*Pyramid Honor Society*.—A senior honor society limited to ten men annually who have maintained excellent scholarship and have distinguished themselves in the advancement of student activities.

*Sigma Delta Phi*.—A national honor society in the "speech arts", for women.

*Sigma Tau*.—Engineering.

*Smith-Reed-Russell Society*.—A scholastic society in the School of Medicine named in honor of Dr. Theobald Smith, Dr. Walter Reed, and Dr. Frederick F. Russell. Students of the third and fourth years maintaining a scholastic average of 86 per cent (*B*+) are eligible for membership. Second-year students who have maintained this average are eligible for associate membership.

*Sphinx Honor Society*.—A women's honor society established for the purpose of promoting high scholarship. Membership is limited to seven women students who have a scholarship average 20 per cent above passing.

*William Beaumont Medical Society*.

### PROFESSIONAL FRATERNITIES FOR MEN

*Alpha Chi Sigma* (chemical); *Alpha Kappa Kappa* (medical); *Alpha Kappa Sigma* (legal); *Commerce and Economics Fraternity*; *Delta Phi Epsilon* (foreign service); *Delta Theta Phi* (legal); *Gamma Eta Gamma*



(legal); Lambda Phi Mu (medical); Mortar and Pestle (pharmacy); Phi Alpha Delta (legal); Phi Chi (medical); Phi Delta Epsilon (medical); Phi Delta Phi (legal); Phi Lambda Kappa (medical); Phi Theta Xi (engineering); Scarab (architectural); Sigma Gamma Epsilon (geological).

#### PROFESSIONAL FRATERNITIES FOR WOMEN

Alpha Epsilon Iota (medical); Alpha Pi Epsilon (home economics); Chi Sigma Gamma (chemical); Chi Upsilon (geology); Kappa Beta Pi (legal); Phi Delta Delta (legal); Phi Delta Gamma (graduate); Phi Pi Epsilon (foreign service); Rho Epsilon Mu (physical education for women).

#### SOCIAL FRATERNITIES

Sigma Chi; Kappa Sigma; Kappa Alpha; Theta Delta Chi; Phi Sigma Kappa; Delta Tau Delta; Sigma Alpha Epsilon; Sigma Phi Epsilon; Phi Alpha; Sigma Nu; Acacia; Theta Upsilon Omega; Sigma Mu Sigma; Omicron Alpha Tau; Tau Alpha Omega; Sigma Theta Delta; Phi Epsilon Pi; Tau Epsilon Phi; The Friars; Alpha Mu Sigma.

#### SOCIAL SORORITIES

Pi Beta Phi; Chi Omega; Sigma Kappa; Phi Mu; Alpha Delta Pi; Delta Zeta; Kappa Delta; Phi Sigma Sigma; Zeta Tau Alpha; Alpha Delta Theta; Phi Delta; Kappa Kappa Gamma; Alpha Epsilon Phi.

#### DEPARTMENT CLUBS

American Institute of Electrical Engineers; American Society of Civil Engineers; American Society of Mechanical Engineers; The Engineering Council; El Club Español; Le Cercle Français Universitaire; Charles Clinton Swisher History Club; Home Economics Club; International Relations Club; Mathematics Club; Men's Education Club; Phi Sigma Rho Philosophical Society; Schoenfeld Deutsche Verein; Women's Education Club.

#### GENERAL

Alpha Sigma Eta (Boy Scout); Alpha Eta Epsilon (dramatic); Art Appreciation Club; Boxing Club; College Poetry Society of America; Columbian Debating Society; Colonial Campus Club; Cue and Curtain Club; Drama Appreciation Club; Epsilon Xi Organization; Glider Club; Interfraternity Council; International Students' Society; League of Women Voters; Liberal Club; Masonic Club; Modern Poetry Club; Orchestria; Panhellenic Council; Philippinesian Club; Radio Club; Riding Club; Shakespeare Society; Speakers' Congress; Troubadours; Women's Athletic Association.



RELIGIOUS

Baptist Students' Union; Christian Science Organization; Episcopal Club; Luther Club; Menorah Society; Newman Club; Presbyterian Club; Wesley Club.

MUSICAL

Girls' Glee Club; Men's Glee Club; Symphony Club; Symphony Orchestra; University Band.

STUDENT PUBLICATIONS

*The Cherry Tree* (the annual); *The Handbook* (manual of University information); *The University Hatchet* (weekly newspaper); *The George Washington Law Review*.



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THE UNIVERSITY RECORD

1932-33





# CERTIFICATES AWARDED AND DEGREES CONFERRED

## THE JUNIOR COLLEGE

### JUNIOR CERTIFICATE

JUNE 15, 1932

Alridge, George Telfair	Ohio	Laslett, Dorothy M.	D.C.
Althin, Alice Regina	D.C.	Ward, Emma	N. Dak.
Anna, Helen Rose	D.C.	Leslie, Catherine M. Neil	MI.
With honors		Lewis, Margaret Frances	D.C.
Atwell, Harriet Johnson	Ohio	M. A. Adams, Leah Emily	D.C.
Beardson, Lillian Louanne	D.C.	M. L. Lyster, William M.	Ind.
Bellows, Eva Gabrielle	D.C.	M. K. Lewis, Lawrence Morell	D.C.
Bensch, Paul Raymond, Jr.	D.C.	M. N. Lee, Catherine Lee	D.C.
Benson, Rosalind	D.C.	M. J. Lewis, Elizabeth	Ind.
Brugglio, Albino Emanuel	D.C.	M. N. Lee, Catherine Lee	D.C.
(With honors)		M. N. Lee, Catherine Lee	D.C.
Burkman, Bonnie	D.C.	M. N. Lee, Catherine Lee	D.C.
Buckley, Richard Randolph	Va.	M. N. Lee, Catherine Lee	D.C.
Burger, Anna Margaret	D.C.	M. N. Lee, Catherine Lee	D.C.
Cappas, Jacob	D.C.	M. N. Lee, Catherine Lee	D.C.
Chaffetz, Betty Mae	D.C.	M. N. Lee, Catherine Lee	D.C.
Chaffetz, Rosanna	D.C.	M. N. Lee, Catherine Lee	D.C.
Chit, Sula E.	D.C.	M. N. Lee, Catherine Lee	D.C.
Cordova, Henry William	Mass.	M. N. Lee, Catherine Lee	D.C.
Cox, Ada Louise	D.C.	M. N. Lee, Catherine Lee	D.C.
Critchfield, Charles L.	Va.	M. N. Lee, Catherine Lee	D.C.
(With honors)		M. N. Lee, Catherine Lee	D.C.
Critchfield, Clara Etta	Ohio	M. N. Lee, Catherine Lee	D.C.
Dunlap, Joseph George	D.C.	M. N. Lee, Catherine Lee	D.C.
Dunlap, Edward Hunter, Jr.	D.C.	M. N. Lee, Catherine Lee	D.C.
Dunlap, Frederick Lee	D.C.	M. N. Lee, Catherine Lee	D.C.
Dunlap, Raymond Francis	D.C.	M. N. Lee, Catherine Lee	D.C.
Dunlap, Anna Brunet	D.C.	M. N. Lee, Catherine Lee	D.C.
Edwards, Sylvia	MI.	M. N. Lee, Catherine Lee	D.C.
(With honors)		M. N. Lee, Catherine Lee	D.C.
Eppens, Morris	D.C.	M. N. Lee, Catherine Lee	D.C.
Geber, Leon	D.C.	M. N. Lee, Catherine Lee	D.C.
Goyette, Linus Francis Gregory	D.C.	M. N. Lee, Catherine Lee	D.C.
Gray, Gertrude Welch	Mass.	M. N. Lee, Catherine Lee	D.C.
Hamill, Frances Virginia	Mo.	M. N. Lee, Catherine Lee	D.C.
Hartman, Clarence R.	D.C.	M. N. Lee, Catherine Lee	D.C.
Hawkins, Virginia Friedlin	Va.	M. N. Lee, Catherine Lee	D.C.
Heiges, Florence	D.C.	M. N. Lee, Catherine Lee	D.C.
Hiltason, Evelyn Blanche	D.C.	M. N. Lee, Catherine Lee	D.C.
Hinds, Alfred Lloyd	D.C.	M. N. Lee, Catherine Lee	D.C.
Hogles, Alice Virginia	D.C.	M. N. Lee, Catherine Lee	D.C.
Jones, Helen Hall	MI.	M. N. Lee, Catherine Lee	D.C.
Kertline, Emma	D.C.	M. N. Lee, Catherine Lee	D.C.
King, Eleanor Woodward	Va.	M. N. Lee, Catherine Lee	D.C.
Kernshover, Arthur D.	Va.	M. N. Lee, Catherine Lee	D.C.
Lambert, Helen M.	D.C.	M. N. Lee, Catherine Lee	D.C.
	N.J.	M. N. Lee, Catherine Lee	D.C.

OCTOBER 13, 1932

Abbe, Petrona	D.C.	Barr, Laura Theodore	D.C.
Albert, Ivan Robert	D.C.	Castro, John, Malmed LaVerne	Ill.
Backus, Franklin Perkins	Va.	Cass, George K.	Utah
Beaton, Anna Margaret	Ill.	Cass, Helen Theall	D.C.
Brett, Pauline Marie	D.C.	Cass, Helen Theall	Calif.
Bryan, Frank Bruce	Va.	Cass, Helen Theall	D.C.
Buckley, Carter W.	Va.	Cass, Helen Theall	D.C.
		Cass, Helen Theall	D.C.

Conley, John G.	D.C.	McLachlen, Anna Helene	MI
Conn, Stetson	D.C.	McNatt, Agnes Louise	D.C.
(With honors)		McPherson, David Caswell	MI
Connors, Joseph A.	D.C.	Mealy, Raymond Jones	D.C.
Crittenden, Eugene Casson, Jr.	D.C.	Middleton, Helen C.	D.C.
Danowsky, Joseph Baer	D.C.	Miles, Louis	Ad.
Dalbman, Virginia Lee	D.C.	Moser, Seymour Stanley	D.C.
Dominick, John Frank	D.C.	(With honors)	Va.
Durham, Richard Claiborne	Va.	Murray, David Daniel	Ill.
Elliott, Bertha Lou	D.C.	Moses, Naomi Pearl	D.C.
Fagelson, Bernard Melvin	Va.	Nathanson, Leon Irving	Mon.
Free, Gerald Monroe	Calif.	Nelson, Eric A.	NY
Gordon, Bertha	D.C.	Oshorn, Martha Louise	D.C.
Gordon, Everett Julius	D.C.	Pittle, Herbert	D.C.
Greene, Charles Livingston	Utah	Ransom, Josephine	Va.
Hardy, Margaret Ruth	D.C.	Richards, Margaret	D.C.
(With honors)		Schmidt, Samuel Lowmy	D.C.
Hansen, Lamar Blawett	Mont.	Smalley, Henry Samuel	Va.
Helvestine, William	D.C.	Smith, Dorothy Esther	Mo.
Herzog, Raymond	D.C.	Smith, H. Albert	D.C.
Himelfarb, Stanford	D.C.	Snowden, Frederic W.	D.C.
Ingham, Inez Aileen	D.C.	Senroy, Arthur	D.C.
Kassan, Robert Jacob	D.C.	(With honors)	D.C.
Keener, John R.	D.C.	Thom, Charles Richard	Ind.
Kelley, Louis	D.C.	Waller, Philip D.	D.C.
(With honors)		Woolson, Ruth Evelyn	Neb.
King, Florence	D.C.	(With honors)	D.C.
Kuffner, Elizabeth	D.C.	Whelan, William Michael	D.C.
Linebarger, Paul Myron Anthony	D.C.	Whitney, Wendell Eleanor	Pa.
Lohman, Philip Hans	D.C.	Willford, Mildred Emma	D.C.
Magee, William George	D.C.	Wise, Charles Conrad, Jr.	

## FEBRUARY 22, 1933

Anstine, Clarence L.	Pa.	Kretschman, Charles M.	Pa.
Baker, Alida A.	Mass.	Landman, Samuel Phillip	D.C.
Blackstone, Frank D.	D.C.	Leont, Florence	D.C.
Blackstone, Margaret Ann	Ma.	McCluskey, Mildred S.	Ind.
Blake, Katharine Cecile	D.C.	Mannings, Fern Walker	D.C.
Bonneries, B. René	Great Britain	Murayama, Ken	D.C.
DeMund, Frederick W.	Mich.	Nelson, Gerald H.	Va.
Doktor, Harriet Hazel	NY	Packer, Ruth Ann	D.C.
Eckert, Catherine E.	D.C.	Payne, Cecilia Joseph	D.C.
Halcy, Grace Wright	D.C.	Schumacher, Clifford Scharff	Iowa
Heyward, David Austin	D.C.	Shaffer, Dorothy Wilt	Pa.
Hobson, Henrietta Lelia	D.C.	Showman, Paul H.	Pa.
Huff, Neal J.	Iowa	Stanton, Alfred Hodgson	NY
Hunt, Charles M.	D.C.	Steplet, Harold Gordon	NY
Imlay, Alice	D.C.	Taylor, John Keenan	D.C.
(With honors)	D.C.	Voorhies, John R., Jr.	Pa.
Kadushin, Herbert A.	NY.	Whitaker, Geraldine	D.C.
Kerr, Evelyn Ruth	D.C.	White, Helen Louise	D.C.
Kiel, Helen Julia	D.C.	Yauch, Mary Louise	

## COLUMBIAN COLLEGE

## BACHELOR OF ARTS

## JUNE 15, 1932

Alfano, Nicholas Francis	N.I.	Berryman, Louise Rhee	D.C.
Allen, Eric Leonard	Iowa	Birch, Catharine	D.C.
Anderson, Eleanor Smith	D.C.	Brewer, Donald DeWitt	D.C.
And, William Dudley	Ma.	Buckham, Ruth Bell	Pa.
Bacon, Margaret	Ga.	Brook, May Louise	Pa.
Bell, William Howard	D.C.	(Spent summer in Germany)	Va.
Bellard, John Cornelius	Ill.	Brown, Walter Ha	NY
Banta, Elizabeth Anna	Conn.	Bruce, Myrtle Helen	D.C.
Barnes, Edwin L.	Mo.	Bundy, Ross	D.C.
Barnes, Emil Herbert	Ma.	Burlingame, Isabel Barbet	Pa.
Beckman, Milton Mayer	N.I.	Burley, Mary Marion	D.C.
Bennett, Jeanette V.	D.C.	Calahan, Anne Louise	
(With distinction)		Campbell, Marion William	

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## OCTOBER 13, 1932

Alphet, Solomon	D.C.	Levathes, Peter George	D.C.
Babin, Mildred Johnson	S. Dak.	Ligon, David Stovall	Va.
deBorja, Marian Miliken	D.C.	McNeil, Harold Osman	D.C.
Diaz, Alvaro Dacanay	P.I.	Menke, Blaine Herman	Nor.
Dobson, Solomon	N.I.	Moon, Sara Martina	D.C.
Doering, Carroll Johnson	Tex.	Moorehead, Gertrude Elizabeth	Pa.
Fullin, Eulene Virginia	Va.	Nyman, Stephen Hopkins	N.Y.
Gulberger, Joseph Herman	D.C.	Orleans, Sol	Ca.
Gulsmith, Harry	Pa.	Pitta, Jack Dickson	D.C.
Hall, Robert Edward Lee	Ca.	Quick, James Clinton	Ohio
Ham, Frances Woolverton	D.C.	Redker, William Henry	Ill.
Hawkins, Lawrence Fleming	W. Va.	Sullivan, Ruth Eugenia	Va.
Holston, Edward W.	Pa.	Summers, Catharine Snowden	N.I.
Kendrick, Caldwell Chappleair	Va.	Sussman, Morris	

## FEBRUARY 22, 1933

Abramson, Norman	D.C.	Linebarger, Paul Myron Anthony	D.C.
Akro, Philip Napier	S. Dak.	Long, Odell Blam	N.C.
Alford, Howard Stanley	Mich.	Mahood, Frances Mildred	Pa.
Bennett, Winifred DeWitt	Oreg.	Maxon, Jack Wellins	D.C.
Blatt, Kathryn Kiefer	Mo.	Morris, Carmen C.	Va.
Bonow, Julia Audrey	D.C.	Olsen, Edward Robert	Conn.
Brookhart, Edith Alma	Iowa	O'Sullivan, Kathleen	D.C.
Bushman, Vernon Louis	Minn.	Reeves, Elizabeth Amelia	Va.
Fox, Dorothy Vernon	Tex.	Stewart, Gordon	Calif.
Hass, Robert H.	Iowa	Stevens, Chase Swain	D.C.
Herzog, Raymond	D.C.	Thompson, Owen Gardner	Va.
Hockett, Margaret Dixon	Va.	Tomphins, Francis M.	
Lavine, Estelle	D.C.		

## BACHELOR OF SCIENCE

## JUNE 15, 1932

Cohn, Robert	D.C.	Metro, Francis Greenberry	D.C.
Cubero, Expedition Piezas	P.I.	Schulz, Audrey C.	D.C.
Hackel, Frank B.	D.C.	Schwab, Frank Wilbur	Kans.
Homer, Charles Kenneth	Va.	Spirito, Michael William	N.I.
Kennedy, William Brent	Va.	Taylor, Malcolm	D.C.
Kettering, James H.	D.C.	(With distinction)	
King, Henry Kendall	Va.	Walkup, Hunter H.	D.C.
Lamoote, Angel Gementiza	P.I.		

## OCTOBER 13, 1932

Howard, William J. P.	D.C.	Pigman, William Ward	
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## MASTER OF ARTS

## JUNE 15, 1932

Andrus, C. Frederic	Ill.	Brown, Virginia Mitchell	D.C.
A.B. 1931, The George Washington University		A.B. 1930, The George Washington University	Kans.
Angel, Herbert Edmund	D.C.	Browne, Mary Victoria	Calif.
A.B. 1930, The George Washington University		A.B. 1930, University of Kansas	
Atchison, Margaret	D.C.	Campbell, Thomas Allen	La.
A.B. 1926, The George Washington University		A.B. 1925, Stanford University	
Buck, Ann, et.	Wash.	Caughey, Sadie	Ill.
B.S. 1927, University of Washington		A.B. 1928, The George Washington University	
Belk, Vida M.	S. Dak.	Clifford, Dean Ann	D.C.
B.S. 1923, South Dakota State College		A.B. 1925, Bradley College	
Bittinger, Isabel	Mam.	Curtis, Westley Farnsworth	
A.B. 1931, Radcliffe College		A.B. 1928, Colorado College	



# Degrees Conferred

vii

Dauphin, Suzanne A.B. 1935, The George Washington University	Va.	Mason, Esther Ann A.B. 1935, The George Washington University	D.C.
Davis, Laura Bates A.B. 1935, Vassar College	D.C.	Matcham, Ora Lee A.B. 1935, The George Washington University	Kv.
DeKay, Elizabeth Mary A.B. 1935, The George Washington University	Va.	McCoy, John M. B.S. 1937, Kansas State Agricultural College	Kans.
Dickinson, Lester Coolidge A.B. 1931, The George Washington University	N.Y.	Muske, Louise M. A.B. 1935, The George Washington University	D.C.
Dunningan, Elmer Elizabeth A.B. 1930, The George Washington University	D.C.	Morris, Elizabeth Catherine A.B. 1931, The George Washington University	D.C.
Eckhoff, Arnold J. B.S. 1927, University of Arizona	N.H.	Mutched, Walter Hammond B.S. 1935, The George Washington University	D.C.
Ellis, Ruth St. Clair A.B. 1924, The George Washington University	Va.	Mutterer, George John A.B. 1931, University of Missouri	Mo.
Ellis, Elmer Philip B.S. 1929, University of Washington	Wash.	Pollack, Ross E. B.S. 1937, Lafayette College	D.C.
Hartmann, Irving B.S. 1929, Cooper Union Institute of Technology	N.Y.	Ramp, Lyda Brooks B.S. 1937, University of Nebraska	D.C.
Hemmel, Katherine Eva A.B. 1931, The George Washington University	Mich.	Ross, Josephine Hanes A.B. 1931, Wesley College	D.C.
Ho, Chee Shing A.B. 1927, Shih Yuen University	China	Saunders, Percy Elmer B.B.A. 1928, University of Washington	D.C.
Jobe, William Theodore A.B. 1927, Bryson College	Tenn.	Sampson, William Francis B.S. 1935, Catholic University of America	D.C.
Kallis, Milton Albert L.L.B. 1921, Northwestern University	Ill.	Stanton, Alexander James B.S. 1935, College of the City of Detroit	Mich.
Kennedy, Ralph Grant, Jr. B.S. 1928, Pennsylvania State College	Pa.	Stout, Agnes J. A.B. 1935, The George Washington University	D.C.
Kreider, Mary Magdalena A.B. 1925, The George Washington University	Pa.	Strubba, Joseph James B.S. 1937, The Citadel	S.C.
Kyner, Sukama Parker A.B. 1926, Goucher College	Md.	Wells, Percy A. B.S. 1928, University of Minnesota	Wash.
Lands, Florence Pugh A.B. 1925, North Carolina College for Women	D.C.	Wesley, Margaret Noves A.B. 1934, Mount Holyoke College	Mass.
Lane, Mary Warfield A.B. 1926, Smith College	Va.	Williams, Chester Morris A.B. 1931, The George Washington University	D.C.
Lee, Mary Virginia A.B. 1929, The George Washington University	Ill.	Wilson, Mirella Alberta A.B. 1927, Natland College	Wis.
Lewis, Catherine Leech A.B. 1931, Hollins College	Md.	Wimsatt, Genevieve Beckwith A.B. 1931, The George Washington University	D.C.
Lindsay, Elsie Virginia A.B. 1931, The George Washington University	D.C.	Winkler, W. Owen B.S. 1928, Brigham Young University	Utah
Lundgren, Maynard B. A.B. 1929, The George Washington University	D.C.	Wood, Joseph Gwynn A.B. 1931, The George Washington University	D.C.
Lyon, Rowland A.B. 1929, The George Washington University	Md.	Yost, Elsie May A.B. 1924, The George Washington University	D.C.
		Youngman, Albert Stanley A.B. 1931, The George Washington University	D.C.

## OCTOBER 13, 1932

Bollen, Catherine B.S. 1926, University of Pennsylvania	D.C.	Gallardo-Dist, José A. B.S. 1931, The George Washington University	P.R.
Chapman, Marion Louise A.B. 1926, The George Washington University	D.C.	Lacey, James Bartroughs A.B. 1931, The George Washington University	Tex.
Cook, Elizabeth Anne A.B. 1930, DePauw University	Ind.	Lawrence, Mabel Ellen A.B. 1925, Syracuse University	N.J.
Frost, Janet Delavan A.B. 1930, Goucher College	D.C.		

Leyking, William Henry B.S. 1911, University of Maryland	D.C.	Reynolds, Donald S. B.S. 1924, University of Denver	Calif.
Millard, F. Margaret A.B. 1929, The George Washington University	Md.	Ward, Marvin R. Brown A.B. 1931, Cornell University	D.C.
Nida, Andrew C. A.B. 1924, University of North Dakota	Ill.	Woodring, H. Stanley A.B. 1931, University of Iowa	Iowa
Price, Mary Elizabeth A.B. 1927, The George Washington University	Ill.		

## FEBRUARY 22, 1933

Battowa, Vinnie Giffen A.B. 1927, Pomona College	D.C.	Reardon, Corinne Talmage A.B. 1928, Randolph-Macon Woman's College	Va.
Heave, Gertrude Elizabeth A.B. 1928, The George Washington University	D.C.	Runner, Delmar Gaston A.B. 1927, West Virginia University	W.Va.
Kime, J. A. B.S. 1929, Larkio College	Mo.	Spicer, Hugh Wilson A.B. 1928, American University	Kan.
Lashley, Mary Norma B.S. 1927, Cumberland University	Tenn.	Wentworth, Robert Louis B.S. 1931, The George Washington University	D.C.
Lewis, H. H. A.B. 1928, The George Washington University	W. Va.	Wright, Byron Darlington B.S. 1929, University of Pennsylvania	Pa.
Lynn, Edna May A.B. 1927, The George Washington University	Md.		

## THE GRADUATE COUNCIL

## DOCTOR OF PHILOSOPHY

## JUNE 15, 1932

Gordon, Leon Stuart M.D. 1928, A.B. 1929, A.M. 1930, The George Washington University Thesis: "The Pathology of Intrauterine Fetal Death in the New Born"	D.C.	Wang, Wenwan A.B. 1923, Home College M.S. 1925, Columbia University Thesis: "The Control of Municipalities by the Legislature of Virginia"	China
Jones, Myron Francis A.B. 1921, Deane College M.S. 1925, University of Illinois Thesis: "The Larva of the Cyclophorid 'Cestodes of Birds'"	Md.	Wilcox, Blanche Bowdoin A.B. 1926, A.M. 1928, The George Washington University Thesis: "The Effect of Bacterial upon the Sex and Maternal Drive of the White Rat"	D.C.
Sullivan, James Bascom A.B. 1922, Mower University A.M. 1922, Columbia University Thesis: "The Certification and Appointment of Teachers in Cities"	Mo.	Williams, James Stewart B.S. 1924, Brigham Young University A.M. 1927, Columbia University Thesis: "The Fauna and Stratigraphy of the Tully Limestone of New York"	Utah

## FEBRUARY 22, 1933

Johnson, William Drumm, Jr. B.S. 1927, University of Chicago Thesis: "Ground Water in the Paleozoic Rocks of Northern Alabama"	Ohio	Ross, Mary Mac Barkuhn A.B. 1925, University of Texas Thesis: "A Study of Factors Entering into the Determination of Handness"	Tex.
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## THE SCHOOL OF MEDICINE

## DOCTOR OF MEDICINE

## JUNE 15, 1932

Adler, Harry A.B. 1928, The George Washington University	N.Y.	Amster, Milton William A.B. 1920, The George Washington University	N.Y.
Alpert, Henry Rowland A.B. 1920, The George Washington University	N.Y.	Baker, Arthur Gorham A.B. 1928, Swarthmore College	D.C.

# Degrees Conferred

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Ball, George Lindsay Ph. G. 1929. A. B. 1930. The George Washington University	Md.	Lafsky, Benjamin Paul A. B. 1929. The George Washington University	D.C.
Barr, William Catharine, Jr. A. B. 1929. The George Washington University	D.C.	Lehman, Paul A. M.A. 1929. The George Washington University	D.C.
Becher, Abraham L. A. B. 1929. The George Washington University	N.Y.	Margaret, Frances A. A. B. 1929. The George Washington University	P.R.
Bitting, William Irving A. B. 1928. The George Washington University	N.Y.	Rice, Raymond Meja M.A. 1928. The George Washington University	D.C.
Blaylock, Ale. Blakely, William Stone Blakely, Henry S. A. B. 1929. The George Washington University	D.C. M.I. N.Y.	Moore, Edward Liel A. B. 1929. The George Washington University	N.I.
Boas, Louis C. A. B. 1929. The George Washington University	N.Y.	Moore, Matthew A. B. 1929. The George Washington University	D.C.
Boaswell, Rufus Echo Chase, Albert Goldman, Jr. A. B. 1929. University of Southern California	Ohio Calif.	Morgan, W. J. Henry B.S. 1929. Duquesne University	Pa.
Cliff, Arthur Edgar A. B. 1929. The George Washington University	D.C.	Nelson, George Bailey B.S. 1929. Washington College	Md.
Cutway, William Francis Crain, Blaine Canton, Jr. Dick, Morris Marcus A. B. 1929. The George Washington University	Ariz. D.C. N.Y.	Nord, Joseph C. B.S. 1929. Drexel College	Canada
d'Gregory, Arnold Galileo Duglas, Harry Samuel A. B. 1929. The George Washington University	N.Y. D.C.	Olsen, Robert Magnus Olsen, Harry Byron Eckert, Kathleen Elizabeth A. B. 1929. Brown College	Va. D.C. Ga.
Edmonson, Raphael Allen Fick, Charles Hayden (With distinction) A. B. 1929. The George Washington University	D.C. Pa.	A. M. 1929. The George Washington University	
Glover, Marvin Wilbur Gonzales, Pablo, Jr. Gordon, Stanley Joseph A. B. 1929. The George Washington University	D.C. Ariz. Pa.	Robinson, Deane Case Rosenfeld, Herman S. A. B. 1929. The George Washington University	N.Y. N.Y.
Hoffman, I. Louis A. B. 1929. The George Washington University	N.Y.	Schubert, Charles Merritt B.S. 1929. Pennsylvania University	Tex. N.Y.
Kennedy, John Joseph Klein, Milton A. B. 1929. The George Washington University	N.Y. N.Y.	Smith, Howard Wyatt A. B. 1929. The George Washington University	Pa.
Kleiner, Samuel Franklin A. B. 1929. Kalamazoo College	Mich.	Sox, Carl Chapman B.S. 1929. University of South Carolina	S.C.
Kroll, Mark M. A. B. 1929. The George Washington University	N.Y.	Stearns, Elmer Edwin Strawbridge, Francis Nelson A. B. 1929. The George Washington University	D.C. D.C.
		Stebbins, Donald A. B. 1929. A. M. 1931. The George Washington University	D.C.
		Suzan, Frank Austin B.S. 1929. University of Pittsburgh	Pa.
		Tanner, Ivan S. A. B. 1929. The George Washington University	Utah
		Raimers, Carmen Froese Wenderson, David Louis (With distinction) Williams, Angelo M.	P.R. D.C. Pa.

FEBRUARY 22, 1933

Va.

Jackson, John M. Iyer  
A. B. 1928. Washington and Lee University

## THE SCHOOL OF NURSING

### CERTIFICATE

JUNE 15, 1932

Bartlett, Essie Colial Bates, Mary Elizabeth Chapman, Alice Fornice Craumer, Jennie P.	D.C. N.C. N.C. Pa.	Dorham, Emma Irene Ellison, Alma Fix, Lel Geodaly, George Kathleen	M.I. D.C. N.C. Va.
-------------------------------------------------------------------------------------------------	-----------------------------	-----------------------------------------------------------------------------	-----------------------------



Green, Martha  
Holsenbeck, Pauline E.  
Hutton, Elizabeth Virginia  
Jenkins, Rebecca White  
Long, Lanie Magdalene

Ga. Moore, Nellie  
Ga. Nash, A. Evelyn  
W. Va. Ritenour, Julia A.  
Va. Wells, Margaret W.  
Md. Westmoreland, Gladys S.

Va.  
N.C.  
Va.  
Va.  
N.C.

## THE LAW SCHOOL

## BACHELOR OF LAWS

JUNE 15, 1932

Amdur, Leon H. A.B. 1926, M.E. 1922, Columbia University	N.Y.	Dudley, Donald Goodnow A.B. 1926, Swarthmore College Dulles, John Foster (as of June 1918) Dutton, Lillian Bertha A.B. 1926, The George Washington University	D.C. D.C. Ala.
Amerman, George Monroe A.B. 1926, Dickinson College	Pa.	Earnest, James Murvin B.S. 1927, Alabama Polytechnic Institute	Colo.
Barr, Louis Henry Ch.E. 1927, Rensselaer Polytechnic Institute	N.Y.	Edwards, William Griffith, jr. B.S. in E.E. 1927, University of Colorado	N.Y.
Bassett, John Earl Bass, William Webb A.B. 1924, Washington and Lee University	D.C. D.C.	Epstein, Reuben B.S. 1926, College of the City of New York	D.C.
Beardsley, Charles Harrison B.S. in Eng. 1926, University of Michigan	Mich.	Feinstein, Louis Frances A.B. 1930, The George Washington University	Md.
Beasley, Albert Farrell Besker, William Straver A.B. 1923, The George Washington University	Ala. Ohio	Finch, Eleanor Harrison A.B. 1929, Trinity College	Pa.
Becker, Donald Casper A.B. 1928, University of Oregon	Oreg.	Fitzsimmons, Richard Raymond B.S. 1924, Carnegie Institute of Technology	D.C.
Berry, Charles Oscar Blossmire, Harold With distinction Graduate 1928, U. S. Naval Academy	D.C. Calif.	Friedman, Melvin Hillard B.S. in E.E. 1928, The George Washington University	D.C.
Bobin, Theodore Roosevelt B.S. 1928, University of Utah	Utah	Gasch, Oliver A.B. 1928, Princeton University	Ala.
Bosch, August Marshall Bowl, Helen Marie A.B. 1927, University of Wisconsin	Okla. D.C.	Grubb, Katherine Mary A.B. 1928, Smith College	Ill.
Boyer, James Bathna B.S. in E.E. 1928, Pennsylvania State College	D.C.	Gullett, James Gordon Hatch, Douglas L. (With distinction)	Nev. D.C.
Brown, Lucy Williams Brown, Mark Agnew A.B. 1924, The George Washington University	D.C. N.H.	Hoffmann, Catherine Ehrmantraut Holden, William Sutherland Holther, David Kay Houghton, Joseph York B.S. 1926, Massachusetts Institute of Technology	Idaho Utah Md. D.C.
Brown, Nelson B.S. in M.E. 1925, University of Michigan	D.C.	Hunt, Margaret Clarke A.B. 1927, The George Washington University	Tex.
Cady, John Pamela Graduate 1931, U. S. Naval Academy	D.C.	Jackson, Charles Horatio, jr. A.B. 1930, The George Washington University	Calif.
Casper, Max A.B. 1927, The George Washington University	D.C.	Johnson, Ervin George B.S. 1927, University of California	Calif.
Carrington, James L. Raymond Carrington, Howard Carter A.B. 1926, Princeton University	Utah D.C.	Johnson, Robert Lee Graduate 1922, U. S. Naval Academy	Tex.
Carrington, Howard Carter A.B. 1926, Princeton University	D.C.	Lacey, Trammell Calhoun A.B. 1927, University of Texas	Mich. Colo.
Carrington, George William Carrington, George A.B. 1926, Princeton University	Ia. D.C.	Langshaw, Gertrude Layton, Philip Raymond A.B. 1931, The George Washington University	Del.
Carrington, George A.M. 1926, University of Chicago	Pa.	LeGates, Eber Thomson B.S. in E.E. 1928, University of Delaware	Del.
Carrington, George B.S. 1924, Princeton University	Iowa		
Carrington, Daniel Arthur Carrington, Bernard	Va. N.J.		



# Degrees Conferred

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MacGill, Winfield Scott, jr. (With distinction) B.S. 1928, University of Virginia	Md.	Scoredon, Chris Gary A.B. 1928, The George Washington University	D.C.
Mattison, Carvel (With distinction) B.S. 1928, University of Utah	Utah	Shaw, Richard Waring Shelton, Charles Lattimer R.S. 1928, University of Maryland	Kans. Md.
McKay, David Lawrence A.B. 1926, University of Utah	Utah	Simmons, Marcus C. Cline A.B. 1928, The George Washington University	Utah
Miller, James Harold A.B. 1930, Juniata College	Pa.	Sitz, Walter Hoersch Graduate 1917, U. S. Naval Academy	Iowa
Miller, Robert Saunders A.B. 1928, University of Michigan	Ohio	M.S. 1922, Massachusetts Institute of Technology	
Morris, John Carlless F.E. 1926, Cornell University	N.Y.	Smith, Frank DeLarme, jr. B.S. in M.F. 1926, Harvard University	D.C.
Morris, Rayson Pasco B.S. in F.E. 1928, University of Idaho	Idaho	Smith, Jesse Robinson Smith, Melvin Clyde A.B. 1927, West Virginia University	Utah Va.
Morse, Excellenya Leah A.B. 1920, University of Vermont B.S. 1922, M.S. 1923, Massachusetts Institute of Technology	Vt.	Stearns, Robert Maynard Stewart, Virginia Ruth Stewart, John Calhoun M.E. 1928, Cornell University	Iowa Ohio Pa.
Murphy, Harold Warner Nevins, Richard David A.B. 1930, The George Washington University	Ind. D.C.	Taylor, Alfred Lindsay F.E. 1923, Rensselaer Polytechnic Institute	N.Y.
Norris, Henry Gladden Nutter, Carl Joseph A.B. 1921, West Virginia University	La. W.Va.	Taylor, William Morris Tenn, George McGrew Loye, F. Gerald B.S. in F.E. 1927, Clarkson College of Technology	Calif. Okla. Va.
Orlison, Robert Henry A.B. 1920, Butler University	Ind.	Tweeddale, Ralph Landon Twining, Merrill Barber Graduate 1923, U. S. Naval Academy	N.Y. Wis.
Parker, Albert Marcus B.S. in M.E. 1928, University of Maine	N.J.	Van Dyke, Lawrence Adelbert, jr. Vernon, Clinton DeWitt von Dachenhausen, George Alexander A.B. 1920, The George Washington University	Utah Utah D.C.
Parsons, Verma Lenore A.B. 1911, The George Washington University	D.C.	Wallace, Jesse Rink With distinction Graduate 1922, U. S. Naval Academy	Ill.
Parsons, William Herbert Patterson, Kirby Williams A.B. 1928, Drury College	D.C. Mo.	Wallenstein, Sidney B.S. in Ch.E. 1928, Case School of Applied Science	Ohio
Pecoraro, Leone A.B. 1928, A.M. 1930, Columbia University	N.Y.	Weeks, Charles Everett Westby, George Newton B.S. 1927, University of Washington	S.Dak. Wash.
Pellecchia, Pellegrina James, jr. Rees, William Chivers Rinehart, Theodore Robinson, William Junius	N.J. Idaho Okla. D.C.	Wight, Donald Miller M.E. 1923, Lehigh University	D.C.
Rosenberry, Wellington, jr. A.B. 1920, Pennsylvania State College	Pa.	Wilkerson, Thomas Nesbitt, jr. Wilkins, Gordon Armstrong A.B. 1926, University of Richmond	N.Mex. Va.
Rosenburg, Everett Reynolds E.E. 1924, Rensselaer Polytechnic Institute	N.Y.	Yaffee, Simon F.E. 1926, Rensselaer Polytechnic Institute	N.Y.
Rosoff, Leo Rutter, Janet Goodwin A.B. 1930, Cornell University	Mass. D.C.	Young, Truman Richards Younger, Donald	Utah Calif.
Schrader, Milward Cecil Schultz, Hugo O. M.E. 1927, Stevens Institute of Technology	Kans. N.J.		

## OCTOBER 13, 1932

Armstrong, Robert Harmon A.B. 1930, West Virginia University	W.Va.	Jackson, John Wingfield With distinction B.S. in Econ. 1928, University of Pennsylvania	D.C.
Blair, John Alexander M.E. 1928, Cornell University	Okla.	Lindquist, Willis John Logsdon, DeEarle Monroe	Minn. Ind.
Chuter, Loren Lee Coffin, Seth Charles B.S. 1926, Indiana University	Ill. Ind.	Kampe, Albert Henry B.S. in C.E. 1924, The George Washington University	D.C.
Elvove, Kady Fowler, Robert Edward E.E. 1926, Cornell University	Ky. N.Y.	Mann, James DeValle A.B. 1928, Birmingham Southern College	Ala.
Hoage, Alden Warne A.B. 1928, University of Maryland	Md.	Mantell, Leon Michael	N.Y.

McElwainey, Grace Cathela A.B. 1918, South College	D.C.	Sherwood, William Earl B.S. in M.E. 1922, University of	Ky
McGinnis, Burton Allen A.B. 1929, University of Maryland	D.C.	Kentucky	N.C.
Miller, Florian George B.S. in M.E. 1929, University of	Pa.	Simons, Macon McCorkle Truman, Rawlins Lewis	N.C.
Michigan		A.B. 1921, Guilford College	
Olson, Frank Montague Ph.D. 1928, University of	Utah	A.M. 1922, University of North Carolina	D.C.
Patterson, George Daniel B.B.A. 1928, Falmouth University	Utah	Wier, William Harvey A.B. 1924, The George Washington	
Seattle, Wash.	Ala.	University	
A.B. 1926, State University of Iowa	Iowa		
A.M. 1927, Harvard University			

## FEBRUARY 22, 1933

Adair, Edwin Ross A.B. 1928, Hildale College	Ind.	Jackson, Arthur Nelson Lawford, George Frank	Utah
Barnes, Stuart Knowlton A.B. 1929, University of Utah	Utah	M.E. 1927, Stevens Institute of Tech-	N.Y.
Black, Henry Franklin B.S. 1928, New York University	Vt.	McCluskey, Casper Shepard	Pa.
Brooks, Albert Edwin, Jr. Cannon, Edward Lee	Tex.	Mengel, Gerald James B.S. 1929, University of Oregon	Cal.
A.B. 1926, Duke University	N.C.	Rohrer, Carl Edwin A.B. 1931, The George Washington	Vt.
Coatsworth, John Wallace A.B. 1928, Dakota Wesleyan University	S.Dak.	University	Utah
Cromwell, Paul Isakell B.S. 1929, University of Illinois	Ill.	Seaman, Kenneth Lorraine B.S. 1929, Brigham Young University	D.C.
Freeman, Carl James A.B. 1927, E.E. 1928, Stanford Uni-	D.C.	Shannon, Arthur B.Sc. 1929, Johns Hopkins University	Neb.
versity		Triley, O. Edward A.B. 1928, The George Washington	
Gillman, Frank Smith Hunkle, Helen Margaret	Ill.	University	W.Va.
I'Anson, Neunie Armistead A.B. 1929, The George Washington	Calif.	Van Meter, Kenny Chambers, Jr.	Ill.
University	D.C.	Wainwright, Mildred Kowens	

## MASTER OF LAWS

OCTOBER 13, 1932

Pettit, Claude Westcott A.B. 1921, Ohio State University	Ohio
LL.B. 1926, Western Reserve University	

FEBRUARY 22, 1933

Byington, Moses Brownlow, Jr. Graduate 1918, U.S. Naval Academy	Tenn.
LL.B. 1926, with distinction, The	
George Washington University	

## THE SCHOOL OF ENGINEERING

## BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

JUNE 15, 1932

Sawyer, Richard Leigh	D.C.	Silsby, Howard W.	Ma.
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BACHELOR OF SCIENCE IN CIVIL ENGINEERING

JUNE 15, 1932

Allen, Loren Edgar	Ky	Head, James William, Jr.	Va.
Baldwin, Thomas Robbins	D.C.	Lamar, Arthur Edward Kirk	Va.
Ball, Lawrence Darle	Va.	Lewis, John Thurston	D.C.
Cole, Howard Stephen	D.C.	(With distinction)	
Copes, Robert L., Jr.	N.C.	Lynn, Sidney B.	D.C.
Emshwiler, John Patterson	Ind.	Mason, Robert Woodward	M.I.
(With distinction)		Peterson, Albert R.	D.C.
Fourchy, Richard G.	D.C.	Riley, Nathan Wise	Va.
Gulich, Beverly Gray	Va.	Schott, Wallis Isham	N.I.

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

JUNE 15, 1932

Free, Harold G.	Iowa	Thames, Francis Miles	D.C.
Jackson, George Maynard	Conn.	Towner, Ora Lee	Va.
St. Clair, Howard E.	D.C.	(With distinction)	
Swingle, Lester Monroe	D.C.		

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

JUNE 15, 1932

Bovey, Harold Strole	D.C.	Rosen, Peter Haskell	Ill.
Brown, James Kirkpatrick	Pa.	Sims, Paul F.	Va.
Lewis, William O.	Ohio	Sims, Roger Don	D.C.
Lyle, Herman Powell	D.C.	Stanton, Henry Edmund	M.I.
Lytle, Raymond M.	Va.	Tamm, George Chester	D.C.
Peterson, Lewis Bryant, Jr.	D.C.	Tamm, George Chester	Fla.
Poppe, William Adolph	D.C.	Walter, Lawrence George	D.C.
(With distinction)			

BACHELOR OF SCIENCE IN ENGINEERING

JUNE 15, 1932

Bateman, Roy Danby	D.C.	Nelson, Melville Cary	N.C.
Brasel, John R.	D.C.	Seagrast, Theodore A.	S.Dak.
Dow, Donald George	D.C.	(With distinction)	
McQueen, James Milton, Jr.	D.C.		

OCTOBER 13, 1932

Miller, Leland Wilbur	D.C.
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CIVIL ENGINEER

JUNE 15, 1932

Teller, Leslie Wayne	Md.
B.S. in C.E. 1933, The George Washington University	

## THE SCHOOL OF PHARMACY

## GRADUATE IN PHARMACY

JUNE 15, 1932

Clements, John William  
 Popphater, Nathan  
 Smith, Milton

D.C. Smyser, Edward Albert  
 D.C. Smoky, Herbert  
 D.C. Sosa, Gabriel Ramon

D.C.  
 Pa.  
 Panama

## BACHELOR OF SCIENCE IN PHARMACY

JUNE 15, 1932

Struzinski, Joseph M.  
 B. Sc. 1931, The George Washington  
 University

D.C. Sosa, Gabriel Ramon

Panama

FEBRUARY 22, 1933

Shapiro, Philip  
 Ph. C. 1931, The George Washington  
 University

Va.

THE SCHOOL OF EDUCATION  
BACHELOR OF ARTS IN EDUCATION

JUNE 15, 1932

Bauer, Grace Margaret  
 Boller, Mary Adelaide  
 Berro, Charles  
 Burch, Helen Regina  
 Burch, Irene Louise  
 Casteel, Sarah Catherine  
 (With distinction)  
 Chamblin, Elizabeth Marshall  
 Chamblin, Margaret Humphrey  
 Connell, Madeline  
 Cummings, James E.  
 Deane, Louis Nelson  
 Driscoll, Gertrude Mary  
 Dyer, Hazel Elizabeth  
 Ewing, Mary  
 Feltz, Katherine  
 (With distinction)  
 Garsdal, Mary Hoskins  
 Gravener, Florence Ramsey  
 Hall, Helen Beryl  
 Harlan, Frances McNeur  
 Hendrickson, John Wesley  
 Henson, M. Owen Jones  
 Hoshinson, Virginia Clare  
 Koon, Florence Elizabeth  
 Knight, Frances Lee  
 (With distinction)  
 Lowken, Dorothy Gilbert  
 Maculla, Mary Roxina  
 (With distinction)

D.C. Marks, Florence Pool  
 D.C. Matthews, Edna  
 Ohio. Merrigott, Jean  
 D.C. Mowshaw, Elizabeth Savage  
 D.C. Nauman, Frances Rose  
 D.C. Nolan, Rosalia Jones  
 D.C. Payne, Lyla Seligmann  
 D.C. Payne, Margaret Mary  
 (Special honors in Latin)  
 D.C. Payne, Nadine Angeline  
 D.C. Pearce, Esther  
 Va. Polakoff, Yvona  
 D.C. Rabinovitch, Dorothy Anne  
 Va. Rabinovitch, Helen Mead  
 D.C. Sagal, Camille N.  
 D.C. Saxe, Julia C. Burke  
 D.C. Sami, Lottie May  
 D.C. Smith, M. Gertrude  
 D.C. Souder, Laura Katherine  
 D.C. Torrey, Anna Padgett  
 D.C. Veasey, Raymond  
 Minn. Wall, Bonnie Virginia  
 (Special honors in Latin)  
 D.C. Webster, Frances Louise  
 D.C. White, Catharine Louise  
 (Special honors in Latin)  
 Va. Williams, Mildred Byrne  
 D.C. Wright, Gladys Mattes

Wash.  
 Md.  
 D.C.  
 D.C.  
 D.C.  
 D.C.  
 D.C.

Va.  
 D.C.  
 Va.  
 Va.  
 D.C.  
 P.I.  
 D.C.  
 D.C.  
 D.C.  
 D.C.  
 Minn.  
 Va.  
 Va.  
 D.C.

OCTOBER 13, 1932

Butrum, Lena Heaner  
 (With distinction)  
 Corkin, Opal Grace  
 Goldsmith, Henrietta Wilson  
 Hannan, Loreta  
 Morgan, Estheline Williamson  
 Munsey, Louise Blunt

D.C. Novinger, Faith Fairchild  
 D.C. Pinkus, Gertrude Bachman  
 D.C. Samp, Lura B.  
 D.C. Wakeman, Laura I.  
 (With distinction)  
 D.C. Wines, Lilian Gladys

D.C.  
 D.C.  
 D.C.  
 Colo.  
 Iowa



## Degrees Conferred

XV

FEBRUARY 22, 1933

Bel, Annie Estelle (With distinction)	D.C.	Frer, Thelma Elizabeth	D.C.
Bergus, Anna Louisa		Gibson, Mary Beatrice	Ill.
Bogles, Jane Elizabeth	D.C.	Jackson, Neta Bartlett	D.C.
Brown, Lora	M.I.	Kaplan, John Adair	D.C.
Burt, Margaret Melvina	Tex.	(With distinction)	
Cogavan, Rosemary F.	D.C.	Nordquist, Eleanor Rhea	D.C.
Cumver, Ruth Averell	N.Y.	Pennington, Della	D.C.
(With distinction)	N.Y.	Shawcross, Abel W.	D.C.
Foster, Charles F.	D.C.	Staker, Rose Margaret	D.C.
		Vissman, Catherine Earle	N.Y.

### BACHELOR OF SCIENCE IN HOME ECONOMICS

JUNE 15, 1932

Gray, Kathryn Gladys	Mo.	Floyd, Anna Mary	Calif.
Hir, Gertrude Becker	D.C.	Lowry, Gladys Isaret	D.C.
(With distinction)			

OCTOBER 13, 1932

Hvatt, Janice Pearl	Mo.
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FEBRUARY 22, 1933

Bonner, Anna Louise	Mo.
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### BACHELOR OF SCIENCE IN PHYSICAL EDUCATION

JUNE 15, 1932

McCallum, Katherine Elizabeth	N.C.	Wilkins, Doris Gwendolyn	N.Y.
von Lewinski, Inge	Germany		

### MASTER OF ARTS

JUNE 15, 1932

Aaron, Thomas Lee	D.C.	Knox, Lucy	Md.
A.B. 1925, Oglethorpe University		B.S. 1924, University of Maryland	
Bolton, Helen H.	Iowa	May, Charles Ross K. Clement	Mo.
A.B. 1925, The George Washington University		A.B. 1924, The George Washington University	
Doherty, Arthur Hughes	D.C.	Olson, George	Calif.
A.B. 1925, The George Washington University		A.B. 1925, Northwestern College	
Gardak, James Frederick	D.C.	Robinson, William	Md.
A.B. 1925, The George Washington University		A.B. 1931, The George Washington University	
Grant, Gwyn Hilba	Mo.	Smith, John Stewart	D.C.
A.B. 1914, Transylvania College for Women		B.S. 1927, Northwestern University	
Larmann, William H. (Jr.)	D.C.		
B.S. 1925, Pennsylvania State Teachers College			

OCTOBER 13, 1932

Harrison, Mildred Bartlett	Mass.	Waller, John Vernon	D.C.
A.B. 1926, Worcester College		A.B. 1924, The George Washington University	
Schneider, Katherine Elizabeth	D.C.		
B.S. in Ed. 1921, Fairville State Teachers College			

Carmichael, Elizabeth Hartline A.B. 1911, Flora M. Donald College	D.C.	Robbins, Cecil Alger A.B. 1912, Ohio State University	Ohio
Cardone, Catherine Atwood A.B. 1911, University of Nebraska	D.C.	Santos, Felisiana Amonson A.B. 1911, The George Washington University	P.I.
Carver, Marie A.B. 1912, B.S. 1924, University of Missouri	Mo.	Sixley, George Lawton A.B. 1911, American University	N.Y.
Perry, M. and St. Martin A.B. 1911, The George Washington University	D.C.	Schaefer, Anna Louise A.B. 1911, The George Washington University	Iowa

JUNE 15, 1932

Amos, Henry E.	Md	Havex, Hilda Gertrude	D.C.
Baker, Paul Elmer		Kaufman, Barbara Julia	D.C.
Baker, Eugene D. - staff	Memo	McIntire, Robert A. Jr	D.C.
Baker, James Emerson	D.C.	Freeman, Harold George	Pa
Barnes, Michael Moger	D.C.	Ring, Lawrence E.	S. Da
Barnes, Lee	D.C.	Sims, Pauline Louise	D.C.
Belmont, Howard Porter	Low	Wade, Henry H.	Mch
Blair, Evelyn V. - staff	D.C.	Waller, Thomas Edison	Ga
Walt, Eugene		Webber, Winston W.	
Harrington, Carl Burnise	D.C.		
With, Winston			

Blake, Montor Williams	Ohio	Ferris, Nathan Lester	N.Y.
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JUNE 15. 1932

Hong, Kwai	China	Pop-Atanasoff, Constantin	Bulgaria
A.B. 1978, University of Communications		A.M. 1978, Balkan Near East Institute	

## BACHELOR OF ARTS IN LIBRARY SCIENCE

Bird, Margaret A. (With distinction)	Iowa	Moats, John S. B.S. in Ch.E. 1928, Washington University S.C.
Branson, Frances K. her (With distinction)	D.C.	Pendleton, Elizabeth Randolph A.R. 1922, Converse College N.J.
Cassidy, Jane Catherine	D.C.	Purnam, Amy Dorothy A.R. 1923, A.M. 1925, The George Washingon University Ohio
Dawinger, Dorothy Holmes	Neb.	Ratchiff, Helen Evelyn Rustler, Ella Purvis D.C.
A.B. 1921, M.A. and College	D.C.	Saidman, Rose Esther (With distinction) Ola-
Edwards, Evelyn Evelyn	D.C.	Simms, Esther Allan (With distinction) D.C.
Evans, Margaret Elizabeth	Colo.	Stredel, Marjone Archibald White, Elizabeth Adelaide N.C.
Hall, Frances M.	Minn.	Wagner, Hazel Virginia A.R. 1922, Maryville College D.C.
B Ed. 1922, Minnesota State Teachers College	New.	Young, Lucinda Frances (With distinction)
Hawkins, Lucile	Mid.	
A.R. 1921, Stanford University	Calif.	
Kennedy, Olive Taylor (With distinction)		
Messner, Hazel Brewer A.R. 1925, Pomona College		

## Degrees Conferred

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OCTOBER 13, 1932

Gingras, Hélène Marie  
Payne, Helen Mohler

D.C. Ruby, James Tate  
Ohio A.B. 1932, Wisconsin College  
A.M. 1938, Indiana University

Wash.

FEBRUARY 22, 1933

Blake, Katharine Cecile  
Mastalski, Katherine Grace  
With distinction  
Simmons, Mary Kirk  
With distinction  
A.B. 1932, George City College  
A.M. 1938, The George Washington University

D.C. Wickham, Sylvia  
D.C. With distinction  
Va. With distinction

D.C.

Ill.

### MASTER OF ARTS IN LIBRARY SCIENCE

OCTOBER 13, 1932

Breen, Virginia Wise  
A.B. 1929, The George Washington University

D.C. Tuncoff, Dmitry D.  
I.I.B. 1932, The Imperial New Russian University  
A.B. 1932, The George Washington University

D.C.

FEBRUARY 22, 1933

Walton, Anna Strickler  
B.S. 1929, Waynesburg College

Pa.

### THE DIVISION OF FINE ARTS

#### BACHELOR OF ARCHITECTURE

JUNE 15, 1932

Abel, Joseph Henry  
Clarke, Russell Hitt

D.C. Hutchinson, Dan William  
D.C. A.B. 1931, The George Washington University  
Jumper, Charles H., Jr.

Mo.

D.C.

FEBRUARY 22, 1933

Kerlauvet, Lester Summers

Md.

#### BACHELOR OF ARTS

JUNE 15, 1932

Moss, Miriam Edith  
(With distinction)

D.C. Spano, Edward Romualdo

D.C.

OCTOBER 13, 1932

Crosby, Elizabeth W.

D.C.

### HONORARY DEGREES

JUNE 15, 1932

Chesney, Alan Mason—Doctor of Science  
Robinson, George Canby—Doctor of Science

Gav. Frederick Parker—Doctor of Science

OCTOBER 13, 1933

Kindler, Hans—Doctor of Music

## SCHOLARSHIPS AND AWARDS

## HOLDERS OF SCHOLARSHIPS

19.32-3.3

*The Byron Anderson Scholar ship* Lee Anna Embrey, Ray Miller  
*The Henry Haslam Carter Scholar ship* Reynold Everett Ask, John Griffiths Barry.  
*The Maria M. Carter Scholar ship* James Hines Lewis  
*The Custer Military Training Camp Scholar ship* Allen Stewart  
*The Columbian Women Scholar ship* Marie Austin Clarke, Elizabeth Middlemas, Martha Louise Osborne, Gladys Irene Frances Thomas, Grace Victoria Young  
*The Joan Perry Scholar ship* Catherine Robina Prichard  
*The Robert Buchanan Scholar ship* Sarah McElroy  
*The Elma Lewis Hunter Scholar ship* Beatrice R. Miller  
*The Hugo Schuch Scholar ship*  
     Am. Kennel Scholar ship William Washington Dyer, Armand Byron Gordon, Ralph Hamilton  
     Rose Matilda Schuch, Mattie Beatrice Taborski  
*Unnumbered Scholar ship* Helen Rose Arons, Douglas Birchby, Ellsworth Bray, Richard Croyte, Clara Ezra Churchill, Grace Cloughton Hall, Robert Hopkins, Hoburg Boreler Lee, Bernard Mangione, John Herbert Meady, Arthur Jones, Helen Marjorie Swick, Bonnelle Thomas, Helen Margaret Watts, Catherine Grace Wilkins, Barbara Lydia Winkler, Etta Josephine Withamer, Mary Rosalee Yarbley  
*The Joan Hess Meigsott Scholar ship* Henry Lincoln Pockham  
*The Mary Lane Stone Scholar ship* Marie Austin Clarke  
*The William Walker Scholar ship* Henry Barcheller Pickens.  
*The Joan Williamson Scholar ship* Bertha Frederic Bier  
*The Ellen W. Struth Schuch ship* Rowna Chaffera.

## AWARDS

1931-32

1931-32

*Alpha Chi Sigma Freeman Prize in Chemistry*: Atmand Goudon, Israel Schulman, Ernest Ioy Umberger

*Alpha Chi Sigma Sewer Award in Chemistry*: Conrad Philip Heims

*Alpha Delta Pi Prize in French*: Herbert Lee Alexander, II

*Alpha Delta Theta Prize in Chemistry*: Leah Metropole

*Capt. James A. Smith Prize in English*: George F. W. Wainwright

*Claremont Prize in History*: Kenneth C. Winkler

*Dr. J. Carter Price in English*: George F. Wainwright

*Elizabeth Cady Price in Richardson Prize in American History*: Kennedy Campbell Watkins

*Dana Prize in Public Speaking*

First Prize: Kenneth C. Winkler

Second Prize: Richard M. Smith

Third Prize: Helen Hayes

*Delta Sigma Phi Prize in Public Speaking*: Zora Lee Abrahamson, Thelma Evelyn Omega

*Epsilon Phi Delta Literary Prize*: Frederick R. Hughes

*Epsilon Delta Prize in English*: Robert Louis Woodworth

*Frederick Prize in English Literature*: Leonard Lee Chapman

*Helen F. Park Prize in Chemistry*: Richard Hugh Sawyer

*Howard Garrison in Commerce Prize in French*: Nava Fox

*James Thompson Literary Prize in Pharmacy*: Edward Albert Emmeret

*Margaret K. Smith in Commerce Prize in Commerce*: Verina Clara Mohrman



- Samuel Hensck Prize in Law*: Louise Frances Feinstein  
*Gardiner G. Hubbard Prize in American History*: Clifford Robert Stearns  
*Henry E. Kalamon Prize in Pharmacology*  
 First year: Theodore Gimbelberg  
 Second year: Henry Milton Butler  
 Third year: Edward Albert Smyver  
*Kappa Delta Prize for Freshman Scholarship*: Adele Stuart Messam  
*Kappa Kappa Gamma Prize in Botany*: Jane Caskey  
*John B. Lurner Prize in Latin*: Jesse Rink Wallace  
*John Graubaux Prize in Latin*  
 First year: Stanton Castled Peck, Jr.  
 Second year: Hattie Dallas Livcott  
*John Gray-nurse Prize in Medicine*: Charles Hayden Heck  
*Psi Delta Prize in Zoology*: Catherine Sten Bason  
*Psi Beta Psi Student Activities Prize*: Mildred Mager Busham  
*Ruggie Prize in Mathematics*: Edwin Locke Battleson  
*Sigma Delta Psi Prize in Botany*: Lucy Frank  
*Sigma Kappa Prize in English Literature*: Sally Fairfax Harrison  
*Sigma Kappa Prize in Chemistry*: Benjamin Lawrence Davis  
*Stoughton Prize in Latin*: Catherine Louise White  
*James MacBrine Sterrett, Jr., Prize in Physics*: Elizabeth Jackson Haines  
*Alexander Willoughby Weddell Peace Prize*: Robert Trevett Patterson

## STUDENT ASSISTANTS

1932-33

- Botany*: Jane Caskey, Marie Austin Clarke, Margaret Mayo, Clifton Scarff Schopmeyer, Arthur Storey, Robert Louis Westraab  
*Chemistry*: Robert McSwain Fowler, William James Hart, Elizabeth Hewston, William Henry Levings, Richard Leigh Sawyer, John Otto Schreder, Louise Jacobs Stull, Donald H. Sylvester, Floyd Witting  
*Economics*: Harold Curran, Julius Meredith Fischer, G. Douglas Taylor, Quentin D. Watson  
*English*: Ruth E. DeVane, Fileen Gartner Galer, Martha Harrell, May Elizabeth Jacobs, Louise James, Elsie Snow King, Louise Mayhurn, Ray Miller, Helen Marston Swick  
*Geology*: Edward Thomas Roe  
*Government*: Catherine Robina Prichard  
*History*: Lee Anna Embrey  
*Library*: Mary Lynch, Charles H. Miller, Golda Smith Payne, Eleanor Virginia Smith, Eleanor Taylor, Kathleen Watkins  
*Physical Education for Women*: Catherine Jeanette Fox  
*Physics*: Bertha Frederic Bier, Eugene Casson Crittenden, Jr., Ceatex Dillon Miller  
*Political Science*: Dean Ann Clifford, Charles H. Dayhoff, Jr., Francesa Phillips Martin  
*Public Speaking*: Elizabeth Reeves  
*Sociology*: Olive Taylor Kephart  
*Zoology*: William Duvall Claudy, Lois Fleming Corea, Deborah Fawn Daniel, Ella Selina Fraser, Elizabeth Kahler

# STUDENTS REGISTERED

1932-33

The names of all students registered during the regular sessions in all Colleges, Schools, and Divisions of the University appear in alphabetical order. Students who withdrew at the close of the first semester by graduation are indicated by an asterisk (\*); others who were registered for the first semester only are indicated by a dagger (†); students registered for the second semester only are indicated by a double dagger (‡).

The College, School, or Division in which the student is registered is indicated after each name. Arabic numerals indicate the semester-hours of credit at the date of first registration for the 1932-33 regular sessions. Roman numerals after the names of students in the School of Medicine and the Law School indicate the year of the course in which each student is registered.

The following abbreviations are used:

*Jun.*—The Junior College  
*Col.*—Columbian College  
*Grad.*—The Graduate Council  
*Med.*—The School of Medicine  
*Law.*—The Law School  
*Eng.*—The School of Engineering  
*Phar.*—The School of Pharmacy

*Ed.*—The School of Education  
*Govt.*—The School of Government  
*L.S.*—The Division of Library Science  
*F.A.*—The Division of Fine Arts  
*Univ.*—The Division of University and Extension Students  
*Uncl.*—Unclassified

## A

†Aak, Cary Walcott (Govt. 21)	D.C.	Agner, Robert Lee, Jr. (Jun. 65)	VI.
Aakin, Thomas Lee (Grad. 21)	D.C.	Ahring, Robert (Jun. 21)	Med.
A.B. 1928, Georgetown University		Abramson, Clyde Bruce, Jr. (Law III)	1932-33 Iowa
A.M. 1932, The George Washington University		Akre, Louis (Law I)	
Aaronson, Fabius Fox (Jun. 21)	D.C.	Akre, Charles Thomas (Law III)	S.Dk.
Albee, Patricia (Med. I)	D.C.	A.B. 1931, State University of Iowa	D.C.
Albee, Truman Watts (Col. 138)	D.C.	*Akre, Philip S. (Col. 127)	S.Y.
Alburt, Albert William (Univ. 1)	D.C.	Aker, Irma Von Erdart (Ed. 120)	D.C.
Alburt, Edward Edward (Law III)	Mass.	Albert, Arnold (Med. III)	D.C.
A.B. 1929, Dartmouth College		Albert, Irvy Robert (Law I)	D.C.
†Abraham, Floyd Daniel (Jun. 1)	D.C.	Albert, John Jacob (F.A. 51)	D.C.
†Abramson, Benjamin (Univ. Law I)	N.H.	Albert, William Lawrence (Jun. 28)	Pa.
B.S. 1924, University of New Hampshire		Albright, M. Lester (Ed. 120)	VI.
Abramson, Herbert (Med. II)	D.C.	Albrow, Leonard Gasp (Med. IV)	
A.B. 1924, A.M. 1928, The George Washington University		Albright, Mary Monte (F.A. A.M. 21)	
†Abramson, Nathan (Eng. 1)	D.C.	B.S. 1928, Harrisonburg State Teachers College	III
B.S. in C.E. 1927, The George Washington University		Albright, Frederic Rachel (Col. 80)	D.C.
Abramson, Norman (Col. 92, Law III)	D.C.	Albright, Joseph Price (Ed. 81)	Pa.
Ackerman, Samuel (Jun. 12)	D.C.	Albright, Charles Ward (Jun. 1)	Ohio
Ackerman, Rudolf Frederick (Col. Uncl. I)	Iowa	Albright, Gordon (Ed. 120)	D.C.
Ackley, Lillian Tompkins (Ed. 65)	N.I.	Albright, George A. (F.A. A.M.)	
*Adair, Robert Ross (Law III)	Ind.	Alexander, Frederick A. (F.A. A.M.)	W.Va.
A.B. 1928, Hillsdale College		A.B. 1931, Washburn College	Calif.
Adams, Dorothea Florenta (Col. 93)	M.I.	Alexander, Herbert Lee, II (Col. 104)	D.C.
†Adams, J. Austin (Col. A.M. 12)	Utah	Alexander, Herbert Mack (Col. 90)	D.C.
A.B. 1930, University of Utah		Alexander, William Lewis (F.A. 1)	N.J.
Adams, John Run, Jr. (Jun. 37)	Kans.	Altman, Nicholas Francis (Med. 1)	
Adams, Clara Lawrence (Jun. 11)	D.C.	A.B. 1934, The George Washington University	D.C.
Adams, George (Jun. 21)	D.C.	Altman, Edgar (Jun. 9)	M.I.
Agar, Davis M. (Jun. 30)	D.C.	*Altman, Bernard (Univ. 1)	M.I.
Agins, Clara (Jun. 20)	N.J.	Agar, Dorothy Dwyer (Jun. 58)	M.I.
		Agar, Kenneth David (Jun. 1)	D.C.
		Alvarez, Joseph E. (Grad. 1)	
		A.B. 1927, Grand Island College	
		A.M. 1928, Northwestern University	





Aud, W. Dudley (Med. II)			
A.B. 1925, The George Washington University			
Audrey, Charles Laurence (Col. 24)			
Austria, Louis Albert (Law I)	N.J.		
Austin, Robert Mills (Jun. 26)	D.C.		
Austin, Hilda Stuart (Law I)	Wyo.		
Avery, Hastings Palmer (Jun. 4)	La.		
Avery, Norman Eastwood (Law I)	Ark.		
E.E. 1911, Virginia Polytechnic Institute	D.C.		
<b>B</b>			
Barbock, Aubrey Helen (Univ.)	D.C.		
Barber, Leonard C. (Eng. 117)	D.C.		
Barck, Goldie (Col., A.M. 26)	Pa.		
B.S. 1921, University of Pennsylvania			
Barck, Carl, Brad. (Law I)	Va.		
Barck, Franklin Parkin (Col. 66)	Va.		
Baron, Ada Elizabeth (Jun. 26)	D.C.		
Baron, Dorothy Lee (Univ.)	D.C.		
Baron, Edmund (Jun. 24)	D.C.		
Baron, George (Med. II)	D.C.		
Baronoff, Kismet Wallace (Ed. 124)	D.C.		
Baron, William Howard (Jun. 1, Uncl.)	N.J.		
Baron, Clara Lucile (Col., A.M. 19)	Pa.		
A.B. 1927, Western Reserve University			
Baron, Ethel Evelyn (Jun. 21)	D.C.		
Baron, Frank L. (Eng. 82)	D.C.		
Baron, Hugh Vincent (Jun.)	Kans.		
Baron, James A. (Law II)	Conn.		
Baron, Lawrence Kent (Jun. 48)	Kans.		
Baron, Lila Parker (Law I)	D.C.		
A.B. 1925, A.M. 1925, The George Washington University			
Baron, Leonard Kenney (Col., A.M. 21)	D.C.		
A.B. 1925, The George Washington University			
Baron, Wendell Henry (Jun. 26)	Iowa		
Baron, Dorothy Ruth (Jun. 22)	Mich.		
Baron, Douglas Otto (Law I)	Ala.		
B.S. 1925, Alabama Polytechnic Institute			
Baron, Arthur (Jun. 26)	D.C.		
Baron, Albert Joseph (Med. IV)	N.Y.		
A.B. 1925, Polytechnic College			
Baron, Alvin Albert (Jun. 24)	Mass.		
Baron, Bernard (Jun. 21)	Neb.		
Baron, Leonard Arnold (Eng. 32)	D.C.		
Baron, George William (Jun. 26)	Wyo.		
Baron, John D. (Ed. 124)	Tex.		
Barn, William Elwood (Ed. 1, Ed. D)	D.C.		
A.B. 1927, A.M. 1925, Colorado State Teachers College			
Barn, William Harrison (Col. 26)	D.C.		
Barn, Wanda Elizabeth (Law I)	N. Dak.		
Barn, Mervin Harvey (Jun. 24)	D.C.		
Barnum, Louis H. (Ed. 26)	Mass.		
Balchman, Anle C. (Jun. 12)	D.C.		
Balchman, Lillian June (Univ.)	Pa.		
A.B. 1922, George College			
Balchman, M. Corbetta (Jun. 26)	Md.		
Balchman, Ralph Vaughn (Law I)	Conn.		
Graduate 1925, U. S. Naval Academy			
Balchman, Robert Oscar (Univ.)	Va.		
Balchman, Stephen George (Med. I)	Ill.		
Balchman, Thomas Robinson (Univ.)	D.C.		
Baldwin, C.E. 1913, The George Washington University			
Baldwin, Lawrence (Univ.)	Va.		
Baldwin, C.E. 1925, The George Washington University			
Bald, Marjorie Dearing (Ed. 116)	Md.		
Bald, Norman Tower (Law III)			
B.S. 1925, University of Toledo			
B.F.S. 1925, Georgetown University			
Bald, William Howard (Ed., A.M.)			
A.B. 1925, The George Washington University			
Baldard, John Cornelius (Col., A.M.)			
A.B. 1924, The George Washington University			
Baldard, Victor Herbert (Law I)			
Baldard, Walter Eugene (Law III)			
Baldard, Charles A. Jr. (Univ.)			
Baldard, John George (Jun.)			
Baldard, Robert Warren (Univ.)			
Baldard, Frederick Charles (Univ.)			
Baldard, Thomas Francis (Eng. 24)			
Baldard, Russell F. (Eng. 21)			
Baldard, Dolly Madison (Jun. 27)			
Baldard, John Paul (Univ.)			
Baldard, George Campbell (Law I)			
B.S. 1924, Hamilton College			
Baldard, Robert Lee (Jun. 26)			
Baldard, Cleome Venable (Univ.)			
Baldard, Lawrence (Univ.)			
B.S. 1925, College of the City of New York			
Baldard, Maxwell M. (Jun. 23)			
Barbato, Michael Angelo (Univ.)			
Barban, Carl Joseph (Law III)			
B.S. in M.F. 1920, Purdue University			
Barban, Margaret Hall (Univ.)			
Barban, John George (Jun. 26)			
Barban, Margaret Joan (A.A., A.M. 14)			
A.B. 1925, State University of Iowa			
Barban, Francis Therese (Univ.)			
Barban, Benjamin Melvin (Jun. 24)			
Barban, John A. (Jun. 26)			
Barban, Clifford O. (Law II)			
Barban, Frank Norman (Eng. 12)			
Barban, William Corbin (Univ.)			
Barlow, Harry Emile (Law I)			
Barlow, Homer Joel (Law I)			
A.B. 1925, Alma College			
Barlow, Richard Louis (Univ.)			
Barlow, Robert Dabner (Univ.)			
B.A. 1925, The George Washington University			
*Barlow, Emory Knowlton (Law III)			
A.B. 1925, University of Utah			
Barlow, Arthur G. (Univ.)			
Barlow, Nelson Gregory (Jun. 44)			
Barlow, Olive Lane (Grad.)			
A.B. 1925, Louisiana State Normal College			
A.M. 1924, The George Washington University			
Baron, Catherine Shea (Jun. 32)			
Baron, Darley Morgan (Jun. 26)			
Baron, Helen Margaret (Univ.)			
Baron, Helen Effort J.S., A.M.)			
Baron, Katherine Effort J.S., A.M.)			
A.B. 1925, The George Washington University			
Baron, Katherine Shepard (Univ.)			
Baron, Victor Golden (Col., A.M. 27)			
A.B. 1925, Pennsylvania College			
Baron, John Griffith (Eng. 40)			
Baron, Ed (Jun. 26)			
Baron, John Abbott (Col. 119)			
Baron, William James (Univ.)			
Baron, Edwin L. (Col., A.M. 12)			
A.B. 1925, The George Washington University			
Baron, Orrin Hill (Jun. 31)			
Baron, Samuel Claude (Univ.)			



# Students Registered

xxiii

Barton, Reba Elaine (Jun. 32)	Md.	Beets, Robert G. (Jun. 42)	Mo.
Basham, Gips (Med. IV)	N.Y.	Beets, Virginia Alice (Jun. 21)	D.C.
Bass, Joel Joseph (Jun. 1)	D.C.	Beets, Victor Darius (Col. A.M.)	N.Y.
Bass, John Leander (Govt. 198)	Okla.	B.S. in E.E. 1931, Cooper Union Institute	
Bassett, Irving Aderson (Law I, Univ.)	D.C.	Betz, Joseph David (Law II)	D.C.
B.G. 1931, The George Washington University		B.S. in M.E. 1928, The George Washington University	
Bassett, John Earl (Col. 62)	D.C.	Betz, Irma Hester (Med. II)	S. Dak.
B.B. 1932, The George Washington University		B.S. 1927, South Dakota State College	
Baszable, Margaret Ann (Jun.)	D.C.	Betz, Charles Albert (Jun. 24)	D.C.
Batzdorf, Grace Edna (Jun. 4)	D.C.	Betz, David Bruce (Jun. 1)	D.C.
Batzdorf, Melba Averil (Jun.)	Mich.	Betz, Hannah Perles (Jun. 18)	Va.
Bateman, Roy Danby (Law II)	D.C.	Betz, John G. (Jun. 7)	D.C.
B.S. in Eng. 1932, The George Washington University		Betz, Mary Lee (Law)	D.C.
Bates, Dorothy Amelia (I.S. 94)	Va.	Betz, Richard Tarble (Univ.)	Idaho
Bates, Evelyn (Jun. 30)	D.C.	Betz, William Leslie (Univ.)	D.C.
Bates, George Newcomb (Law II)	D.C.	Betz, Lee Anna (Law)	D.C.
A.B. 1928, Williams College		Betz, Robert (Law 27)	D.C.
Bates, Janet Louise (I.S. 112)	D.C.	Betz, Robert Anne (Law 118)	D.C.
Batzelstein, Clarence Edmund (Grad.)	Va.	Betz, George Harley (Jun. 18)	D.C.
A.B. 1932, Franklin and Marshall College		Betz, Michael (Col. A.M. 24)	Md.
A.M. 1926, The George Washington University		A.B. 1917, Gustavus College	D.C.
Battaglia, Antulio Gastano (Univ.)	D.C.	Betz, Joseph Summers (Eng. 25)	Ill.
Bauer, Grace Margaret (Col. A.M.)	D.C.	Betz, Arnold M. (Jun.)	P.R.
A.B. 1932, The George Washington University		Betz, Louis V. (Univ.)	D.C.
Bauerfeld, Emil Herbert (Med. II)	Md.	Betz, Mary Celestia (Univ.)	
A.B. 1932, The George Washington University		A.B. 1932, The George Washington University	
Barknigh, Fred Steele (Jun. 30)	D.C.	Betz, Frances Elizabeth (Univ.)	Canada
Barker, George Edward (Eng. 24)	D.C.	Betz, Alice (Univ.)	D.C.
Baum, Charles McNelly (I.S. 14)	D.C.	Betz, Clarence Henry (Law I)	D.C.
Bauman, Isadore Paul (Jun. 30)	D.C.	A.B. 1928, Western Maryland College	
Baustman, Ruth Mae (Univ.)	Va.	Bennett, Dorothy Gale (Univ.)	D.C.
Baxley, Louise Italia (Jun. 45)	Va.	A.B. 1928, Western Maryland College	
Baxter, Russell L. (Law III)	Ark.	A.M. 1926, The George Washington University	
A.B. 1932, University of Arkansas		Bennett, Everett G. (Eng. 30)	Oreg.
Bay, Josephine Elizabeth (Col. 75)	Ohio	Bennett, James George (Univ.)	Scotland
Bay, Guy M. (Univ. Ind.)	Ky.	Bennett, Richard Darius (Eng. 82)	Md.
Baylor, Benjamin Byrd, Jr. (Col. 64)	D.C.	Bennett, Wendell D.W. (Col. 198)	Oreg.
Baylor, Marjorie McLeod (Col. A.M.)	D.C.	Bennett, Mary Louise (Univ.)	D.C.
A.B. 1928, University of Chattanooga		A.B. 1932, Gustavus College	D.C.
Bays, William Webb (Law, I.I.M.)	D.C.	Bennett, Margaret Geneva (Jun.)	D.C.
A.B. 1934, Washington and Lee University		Bennett, Mark (Eng. 20)	D.C.
L.I.B. 1932, The George Washington University		Bennett, Robert (Eng. 20)	D.C.
Beach, Arthur Eugene (Col. A.M. 18, Law I)	Md.	Bennett, Robert (Univ.)	Mich.
A.B. 1932, The George Washington University		Benson, Fred Eugene (Univ.)	Utah
Beach, Robert Page (Jun. 30)	Iowa	B.S. 1928, Utah State Agricultural College	
Beach, Milton Albert F.	N.Y.	Bentley, Thomas Bernard (Univ.)	Pa.
Beach, Hazel Christine (Jun. 30)	Va.	A.B. 1932, The George Washington University	
Beach, Albert Wilbur (Law 31)	D.C.	Bentley, Thomas (Univ.)	D.C.
Beach, Howard Franklin (Eng. 32)	Md.	Bentley, Thomas (Univ.)	D.C.
Beard, William Henry (Med. IV)	D.C.	Bentley, Thomas (Univ.)	D.C.
A.B. 1931, The George Washington University		Bentley, Thomas (Univ.)	D.C.
Beasley, Delmar Ott (Law I)	Mass.	Bentley, Thomas (Univ.)	D.C.
Beattie, Daniel Curtis (Jun. 30)	Va.	Bentley, Thomas (Univ.)	D.C.
Beattie, Mae (Univ. 1932)	Va.	Bentley, Thomas (Univ.)	D.C.
Beaver, Anna Fay (Col. A.M.)	D.C.	Bentley, Thomas (Univ.)	D.C.
A.B. 1932, Bucknell University		Bentley, Thomas (Univ.)	D.C.
Beavers, Frank William (Col. A.M.)	D.C.	Bentley, Thomas (Univ.)	D.C.
A.B. 1932, Williams College		Bentley, Thomas (Univ.)	D.C.
Becker, Carolyn Jane (Jun. 34)	D.C.	Bentley, Thomas (Univ.)	D.C.
Becker, Dix (Univ.)	D.C.	Bentley, Thomas (Univ.)	D.C.
Becker, Milton Evelyn (Jun.)	D.C.	Bentley, Thomas (Univ.)	D.C.
Becker, Norma Elise (Jun.)	D.C.	Bentley, Thomas (Univ.)	D.C.
Beckmann, Ethel Norma (Univ.)	Mass.	Bentley, Thomas (Univ.)	D.C.

Berman, Ralph (Jun. 19)	Mass.	Blackstone, Frank Demmon (Jun. 14)	D.C.
†Bernard, Irene Schmitt (Col. 59)	Mo.	Blackstone, Margaret Ann (Jun. 88)	Mo.
Bernstein, Reim Col. 62	D.C.	†Blackman, William Herbert (Jun. 9)	D.C.
Berry, Charles Oscar (Col. 88)	D.C.	Blaine, Maybelle L. (Jun. 1)	Pa.
L.L.B. 1912, The George Washington University		Blaine, James William (Jun. 45)	Ind.
Berra, Jasper M., Jr. (Jun. 18)	Mt.	†Blair, Bertha (Univ.)	Mont.
Berra, Thomas Edward (Jun. 25)	D.C.	A.B. 1912, Manchester College	
Berryman, Elizabeth Heller (Col. A.M. 12)	D.C.	*Blatt, Kathryn Rufner (Col. 114)	Ma.
A.B. 1917, The George Washington University		†Blatt, Vernon B. (Univ.)	Ky.
Berto, Charles (Col. A.M.)	Ohio	†Blake, Donald Frank (Jun.)	Ind.
A.B. 1912, The George Washington University		†Blake, Evelyn Louise (Univ.)	Ind.
†Bertram, Harold Jean (Univ.)	D.C.	*Blake, Katharine Gould (L.S. 117)	D.C.
Bessman, Leonard Marion (Jun. 45)	Wa.	*Blake, Marion Williams (Govt. 110)	D.C.
Berkovsky, Leon Col. 91	Iowa	Blair, Lester (Ed. 98)	D.C.
Berkshire, Walter Alvin (Col. 111)	D.C.	Blair, Raymond L. (Univ.)	D.C.
†Bertr, Robert Allen (Univ.)	Tex.	Blackburn, Frank Welsh (Univ.)	Ark.
Berry, David Paul (Law I)	D.C.	†Blanton, Anne Louise (Univ.)	Tex.
A.B. 1912, Norwich University		A.B. 1925, The George Washington University	
†Betz, Leonard John (Univ.)	D.C.	†Blauvelt, Nelson Milton (Jun.)	D.C.
A.B. 1912, Catholic University of America		Blazina, William Marion (Med. IV)	Pa.
†Bibb, James Chester, Jr. (Jun. 9)	D.C.	R.L. 1912, University of Pittsburgh	
†Bibber, Leon Clayton (Univ.)	D.C.	Blachman, Milton Howard (Jun.)	D.C.
B.M.P. Eng. 1, B.S. 1917, University of Michigan		Blaw, Forrest Allen (Eng. 101)	D.C.
Bickford, Murrell Jay (Col. A.M. 6)	D.C.	†Blaxter, Paul Everett (Univ.)	D.C.
A.B. 1911, The George Washington University		Blask, Edward L. (Law III)	N.Y.
Biddle, Gordon Cook (Law II)	N.J.	B.S. in M.E. 1917, New York University	N.Y.
B.S. in Eng. 1911, Princeton University		Blaw, Irving (Jun.)	D.C.
†Bigelow, William Luther (Jun.)	Ga.	Black, Raymond Buckingham (Col. A.M.)	D.C.
Bigness, Eva Gabriella (L.S. 61)	D.C.	B.S. 1917, Massachusetts Institute of Technology	D.C.
Bier, Bertha F. (Ed. 98)	Pa.	Blind, Hyman L. (Univ.)	D.C.
Bierman, Rebecca Anna (Col. A.M.)	Va.	Blind, Ruth Thomas (Jun. 42)	D.C.
A.B. 1912, The George Washington University		Bliss, Stephen Walter (Law III)	D.C.
†Bille, Edgar B. (Eng.)	Mo.	B.S. in E.E. 1918, University of Idaho	Ind.
Bingstraff, Dorothy Louise (Col. A.M. 18)	Nehr.	Bliss, James Frank (Eng. 81)	Ind.
B.S. in Ed. 1927, University of Nebraska		Bliss, Rhoda Margaret (Jun. 43)	N.Y.
†Biggs, Norman Louise (Univ.)	D.C.	Blossom, Robert Vaughn (Law II)	Calif.
Biller, Evelyn Margaret (L.S. 80)	D.C.	Blossom, William Frederick (Ed. 114)	Mo.
Bills, Thomas (Law III)	Utah	Bliss, Harry Wynward (Univ.)	Ky.
†Billingsley, William Kirkman (Jun. 26)	D.C.	†Bliss, L. J. Henry (Univ.)	
†Bliss, Harry James (Univ.)	Mt.	A.B. 1912, A.M. 1912, The George Washington University	
D.V.M. 1916, The George Washington University		†Bliss, Paul Frederick (Jun. 42)	Mo.
†Birch, Catharine (Col. A.M.)	D.C.	†Bliss, Mary Eleanor (Jun. 27)	D.C.
A.B. 1912, The George Washington University		†Black, Henry William (Law II)	N.Y.
Birchby, Ernest Douglas (Jun.)	Mt.	Black, S. Benjamin (Col. A.M.)	
Bisbee, Judith Vance (Jun. 41)	Va.	B.S. 1912, College of the City of New York	
Birmingham, Alphonso (Ed. 21)	Mt.	Bolony, Anna Margaret (Col. 92, Law I)	D.C.
Birmingham, Milton Parkins (Eng. 112)	Mt.	†Bols, Deane Elizabeth (Jun. 4)	D.C.
Bristol, John Lawrence (Law, Uncl.)	D.C.	†Bornton, Katherine M. (Univ.)	Nehr.
A.B. 1911, University of Maryland		Boss, Benjamin J. (Col. 7)	D.C.
†Bibb, Charles L. (Law, Uncl.)	D.C.	†Boutchier, Alton McFarland (Eng. 42)	D.C.
A.B. 1912, Western Maryland College		A.B. 1915, The George Washington University	
Bishop, Howard Weldon (Eng. 26)	D.C.	†Bogart, W. Vern P. (Jun. 34)	Mo.
Biss, Laurence Gary (Eng. 114)	D.C.	†Bogart, Jane Elizabeth (Ed. 112)	N.Y.
Biss, Rachel (Med. I)	Mass.	Bonall, William Elmer (Jun. 12)	Ind.
A.B. 1911, Parkside College		Bolin, Theodore (Ed. A.M.)	
A.M. 1912, The George Washington University		B.S. 1918, University of Utah	
Black, Edson Fahry (Eng.)	D.C.	L.L.B. 1912, The George Washington University	D.C.
D.S. 1918, Norwich University	Vt.	Borin, Peter A. (Jun. 32)	N.Y.
Black, Joe C. (L.S. 30)	D.C.	†Boly, Robert Kenneth (Univ.)	D.C.
Black, John Kay (Law II)	Ind.	B.S. 1911, Rutgers University	Ind.
Blackburn, Ruth (Col. A.M. 6)	D.C.	Bolton, Theresa (Jun. 11)	Ind.
A.B. 1912, Northwestern University		Borin, Leona W. (Univ.)	D.C.
		A.B. 1912, University of Michigan	Ind.
		Borin, William Douglas (Univ.)	D.C.
		Borin, Alphonso (Univ.)	D.C.
		†Bon, George (Univ.)	Mo.
		B.S. 1911, College of Charleston	
		Bonner, Laurence Bartlett (Univ.)	

# Students Registered

XXV

Bonner, Roy C. (Jun. 60)	D.C.	Bradshaw, Amy Rae Peterson (Grad.)	N.Y.
Bonham, Jasper Eugene (Med. D.)	N.Y.	A.B. 1914, Indiana University	
Bonnet, John Arthur (Col. 51)	D.C.	A.M. 1916, Columbia University	
Bonnet, Mildred Margaret (L.S. 62)	D.C.	Bradshaw, Max Abraham (1923)	D.C.
Borth, Louis Adolphe (Jun. 28)	D.C.	A.B. 1918, A.M. 1921, The George Washington University	
Bouth, Nancy (Jun. 33)	D.C.	†Brady, Robert M. (Univ.)	Md.
Boutin, Nellie Camp (Jun. 34)	D.C.	†Brady, Robert M. (Univ.)	D.C.
Bourges, Joseph (Col. Univ.)	D.C.	Brown, William M. (III)	Md.
Bourland, Louis William (Univ.)	Md.	A.B. 1921, The George Washington University	
Bourne, Roscoe (Law I)	D.C.	Brace, Martin Allen (Med. IV)	N.Y.
Bout, Edward (Eng. 31)	D.C.	A.B. 1922, The George Washington University	
Bout, Harry (Eng.)	D.C.	†Brace, John Walter (Univ.)	Pa.
Bout, Eugene (Col. A.M.)	D.C.	B.S. 1922, M.S. 1924, Pennsylvania State College	
A.B. 1922, The George Washington University		Braddock, Walter Wallace (Jun. 34)	D.C.
Boucher, Lionel René (Jun.)	N.H.	†Brady, Anna Virginia (Univ. 18)	D.C.
Boucher, Robert Charles (Jun. 13)	Ind.	Brady, Francis George (Univ. 25)	D.C.
Boutin, Letha Dee (Jun. 32)	Mo.	†Brady, Cassius N. (Univ. 19)	D.C.
†Bour, Catherine Louise (Jun.)	D.C.	Brady, Maxwell Frederick (Jun. 13)	D.C.
Bourke, Thomas Evelyn (Eng. 43)	D.C.	Brady, Mary Louise (Col. 34)	Ohio
Bourne, Harold Hunter (A. 64)	D.C.	†Brady, Cora Martin (Jun. 28)	Va.
Bourne, Gene Rayburn (Jun. 43)	Calif.	Brady, John J. (Law III)	N.Y.
†Bourne, Harold (L.S. 1921, The George Washington University)	D.C.	B.R.S. 1922, Georgetown University	
Bourne, James Vincent (Univ.)	N.I.	Brady, John (Col. 19)	N.Y.
Bourne, Columbus Lee (F.A., Ford)	D.C.	Bryant, Jean Carl (Col. A.M. 6)	Md.
Bourne, Francis Patrick (L.S., Univ.)	D.C.	B.S. 1922, Johns Hopkins University	
A.B. 1921, Hobart College		Bray, Elsworth (Eng. 31)	Va.
Bourne, John Thomas (Univ.)	Va.	Bray, J. Theodore (Col. 34)	Pa.
Bourne, William M. (Col. A.M.)	Pa.	Bray, Robert Bruce (Univ.)	D.C.
A.B. 1921, American University		†Brazelton, Thomas Carlton (Univ.)	D.C.
Bourne, David Edwin (Jun. 4)	Md.	Braxton, Elbert George (Jun. 1)	D.C.
Bourne, John Margaret (Univ.)	D.C.	Braxton, John B. (Law I)	Md.
Bourne, Walter A. (Law I)	Md.	Braxton, James Mung (Law I)	D.C.
Ph. B. 1922, University of Chicago		B.S. 1921, M.F. 1923, The George Washington University	
Bourne, Betty Lee (Jun. 12)	D.C.	Brecht, Henry Harper (Grad.)	Md.
Bourne, Donald McArthur, Jr. (Law III)	Md.	A.B. 1921, Blue Ridge College	
Bourne, Frank M. (Jun. 17)	Va.	A.M. 1927, University of Pittsburgh	
Bourne, Charles Lester (Univ.)	Va.	Brick, Amy Evelyn (Jun. 30)	Mass.
Bourne, Robert Alexander (Univ.)	Va.	†Brick, Helen (Univ.)	D.C.
Brady, Robert Osborn (L.S. III)	Oreg.	Brick, Samuel (Univ. Heaven (Univ.)	Va.
A.B. 1921, Ambler College		L.L.B. 1922, The George Washington University	
Brady, Samuel (Law II)	D.C.	Brick, Harold Ernest (Jun. 1, Univ.)	Ill.
Brady, James Burton (Law, L.L.M.)	D.C.	Brickman, Leonard Walter (Eng. Univ.)	Kent.
B.S. 1921, 1928, Pennsylvania State College	Pa.	Brickman, Fred Max (Jun.)	D.C.
L.L.B. 1922, The George Washington University		Brickman, John (Univ. Law I)	S.C.
Brady, Ralph Lewis (Phar. 11)	D.C.	A.B. 1921, The Citadel	
Brady, Mary Norma (Ed. 72)	D.C.	Brickman, Samuel (Med. IV)	N.Y.
Brady, Anna (Univ.)	D.C.	Brickman, Paul (Col. 15)	D.C.
Brady, Mary Marian (Col. 91)	D.C.	Brickman, Cassius B. (Univ. 19)	D.C.
Brady, Robin (Un. 98)	D.C.	Brickman, Charles Max (Univ. 19)	Va.
Brady, Norman E. (Col. 71)	Minn.	B.S. 1921, M.S. 1924, University of Maryland	
Brady, Nancy Morris (Univ.)	Ind.	†Brewer, Donald DeWitt (Col. A.M.)	D.C.
Brady, Dwight (Univ. Col. A.M. 25)	D.C.	A.B. 1921, The George Washington University	
A.B. 1921, The George Washington University		†Brewer, Marcus Victor (Jun. 20)	Ill.
Brady, Howard Melville, Jr. (Jun.)	D.C.	†Brewer, Victor L. (Univ.)	Mo.
Brady, Lowell Joseph (Law I)	D.C.	Briggs, Florence Estelle (Jun. 15)	Ill.
Brady, Ralph Arthur (Col. A.M. 21)	Ark.	Briggs, Albert Frederick (Jun. 14)	D.C.
A.B. 1924, Arkansas State Teachers College		Briggs, John W. (Univ. Eng. 117)	Nebr.
Brady, Thomas Allen (Eng. 78)	D.C.	†Briggs, Paul W. (Univ. 19)	D.C.
A.B. 1921, Catholic University of America	Pa.	Briggs, Albert (Univ. Med. I)	D.C.
Brady, Louis Francis, Jr. (Law III)	D.C.	Briggs, Florence Margaret (Jun. 21)	D.C.
Ph. D. 1925, The George Washington University		Briggs, Lewis Albert (Jun. 2)	D.C.
Brady, Wayne Clark (Jun. 35)	Wis.	Briggs, Louis P. (Ed. A.M. 25)	W.Va.
†Brady, William (Univ.)	D.C.	A.B. 1921, The George Washington University	



Brines Paul C. (Law II)				
A.B. 1931, University of Illinois				
†Brising, David George (Jun. 83)	D.C.	III.	†Brown, Virginia Mitchell (Univ.)	D.C.
†Brookman, Clifford John (Uncl.)	N.J.		A.B. 1930, A.M. 1934, The George Washington University	
†Brookman, Joseph Francis (Jun.)	D.C.		Brown, Walter D. (Jun. 19)	D.C.
†Brinker, Sarah Franklin (Ed., A.M. 16)	D.C.		Brown, William Pettisall (Eng.)	Ga.
B.S. 1926, North Carolina College for Women			†Brinkley, Leon Benjamin (Univ.)	D.C.
†Broadbush, Nancy Beall (Jun.)	D.C.		Brinkley, Edith W. (Ed. 34)	D.C.
†Brooks, John Patterson (Jun. 72)	S.C.		Bringer, Evelyn (Jun. 20)	Va.
†Brook, Wallace Donald (Govt., Uncl.)	Fla.		Bringer, Alice (Jun. 20)	Switzerland
†Brook, Jacques Leonard (Law III)	N.Y.		Brugman, Lawrence William (Law II)	Ill.
†Brooklin, Louis Andrew (Med. III)	N.J.		B.S. in M.L. 1930, University of Illinois	
†Brookrick, Kenneth L. (Law I, Col. 80)	Kan.		Bruman, Abraham Joseph (Col., A.M.)	D.C.
†Broome, Frank Harwood (Law II)	D.C.		B.S. 1918, University of Nebraska	Pa.
B.S. in F.F. 1911, The George Washington University			Brumbaugh, Robert C. (Jun. 52)	Pa.
†Bronstein, Nathan Joseph (Jun. 32)	D.C.		†Brunner, Lucille Crescentia (Univ.)	Minn.
†Brook, May Louise (Col., A.M.)	Pa.		Bryan, Celia Stimp (Jun.)	N.Y.
A.B. 1932, The George Washington University			†Bryan, Ernest Rowlett (Col., A.M. 15)	N.Y.
†Brookfield, Eugenia Lewis (Jun. 45)	Va.		A.B. 1907, Syracuse University	Va.
†Brookhart, Edith Alma (Col. 108)	Iowa		†Bryan, Frank Bruce (Law I)	D.C.
†Brookhart, Florence H. (Med. III)	Iowa		†Bryan, Fred Allen (Jun. 49)	D.C.
A.B. 1931, The George Washington University			†Bryan, Samuel (Univ.)	D.C.
•Brooks, Albert Edwin, jr. (Law III)	Tex.		B.S. 1912, Michigan College of Mines	D.C.
†Brooks, Amelia (Jun.)	D.C.		Brvant, Ryland Crows, jr. (Jun. 1)	D.C.
†Brooks, Carolyn (Law I)	D.C.		Brzawski, Julian Aaron (Eng. 93)	D.C.
†Brooks, Gilbert (Eng. 188)	D.C.		†Buchanan, Bruce (Ed. 80)	Conn.
†Brooks, Jesse Howard (Law II)	Mont.		†Buchanan, Cedric Harlan (Eng. 21)	Fla.
A.B. 1930, Oberlin College			†Buchanan, Louise Lucille (Jun. 60)	D.C.
†Brooks, Ruth Curry (Jun. 28)	Md.		†Buchanan, Martha Harriet (Col. 53)	D.C.
†Brooks, Thomas Russell (Jun.)	D.C.		†Buchingham, John Homer, jr. (Col. 92)	D.C.
†Brook, Edgar Jay (Law II)	Iowa		†Buckley, Edythe Annie (Ed., A.M. 18)	D.C.
†Brown, Barbara Esther (Col. 62)	Md.		A.B. 1931, The George Washington University	Va.
†Brown, Burnell Woodell (Jun. 44)	Ark.		†Buckley, Casper W. (Law I)	Va.
†Brown, Calvin Francis (Univ.)	D.C.		†Buckley, Michael Lester (Jun. 20)	Va.
A.B. 1931, American University			†Buckley, Richard Randolph (Law I)	Va.
†Brown, Carl Ernest (Jun. 32)	Utah		†Buckman, Bertha Schooley (Jun. 87)	D.C.
†Brown, Edith Louise (Med. II)	N.Y.		†Budd, Wesley Riddle (Jun. 61)	D.C.
A.B. 1931, Hunter College			†Budge, Richard Anthony (Jun. 45)	D.C.
†Brown, Elizabeth Nina (Jun. 9)	Mass.		†Buehler, Laura W. (Univ.)	D.C.
†Brown, Gordon Harry (Jun. 45)	Iowa		†Buell, Alice Hyde (Jun. 31)	Va.
†Brown, Helen Elizabeth (Jun. 32)	D.C.		†Bullington, Hellegarde Paver (Col., A.M. 10)	Va.
†Brown, Herman Cliff (Eng. 25)	Md.		B.Ch. 1923, Cornell University	Wa.
†Brown, Irvin Arthur (Jun. 30)	D.C.		†Bulness, Dorothy Gertrude (Jun. 12)	Ky.
†Brown, John Laurence (Med. IV)	Calif.		†Burdell, Fred B. (Jun.)	D.C.
†Brown, Katherine Louise (Jun.)	D.C.		†Bullion, Leroy DeWalt (Law II)	D.C.
†Brown, Lee Correll (Jun. 9)	Va.		†Busthead, Newman T. (Univ.)	Ark.
†Brown, Lena Monette (Univ.)	Va.		†Bunch, Melvin V. (Col. 53)	D.C.
†Brown, Lois (Ed. 112)	Tex.		†Burdick, Harriet Ellen (Col., A.M. 25)	Wash.
†Brown, Margaret Louise (I.S. 108)	N.C.		†Bundy, Emory Edwin (Law III)	
A.B. 1927, The George Washington University			A.B. 1927, Whitman College	
†Brown, Max H. (Jun. 16)	Mo.		A.M. 1910, The George Washington University	Ohio
†Brown, Mildred E.J., A.M. 11)	D.C.		†Bundy, Lane Bates (Jun. 18)	D.C.
A.B. 1921, Goucher College			†Bunnsage, Tolvay (Jun.)	D.C.
†Brown, Nancy Elise (Jun.)	D.C.		†Buntin, Helen Stewart (Jun.)	Md.
†Brown, Nathan Manuel (Jun.)	Del.		†Burbank, Virginia Katherine (Law I)	
†Brown, Neill Smith (Eng. 41)	D.C.		A.B. 1931, The George Washington University	D.C.
†Brown, Paul Ambrose (Univ.)	D.C.		†Burch, Dorothy Frances (Jun. 33)	D.C.
†Brown, Rebecca (Col., A.M.)	Md.		†Burch, Irma Louise (Univ.)	
A.B. 1932, Goucher College			A.B. 1934, The George Washington University	W.Va.
†Brown, Robert Thomas (Law II)	Mass.		†Burchinal, Robert Ira (Law I)	
B.F.S. 1927, Georgetown University			A.B. 1926, West Virginia University	DE
†Brown, Rallen Ellsworth (Jun.)	D.C.		†Burford, Jean Margaret (Jun. 29)	D.C.
†Brown, Ronald Frederick (Col., A.M.)	D.C.		†Burger, Anna Margaret (Col. 28)	D.C.
B.S. 1932, University of Maryland			†Burgess, Forrest Franklin (Col. 109)	D.C.
†Brown, Rosalee Vark (Jun. 29)	D.C.		†Burgess, Gladys Moore (Jun. 16)	D.C.
†Brown, Ruth Miller (Jun. 36)	D.C.		†Burgess, Ralph Edwin (Univ.)	Mont.
†Brown, Virginia (Jun.)	D.C.		A.B. 1930, Williams College	D.C.
	D.C.		†Burgess, Thomas F., jr. (Univ.)	Neb.
	D.C.		†Burk, Margaret Melvyn (Ed. 110)	
			†Burke, James Edgar (Jun., Uncl.)	



# Students Registered

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Burke, Louis Clair (Med. I)	Pa.	Cade, Helen Brewer (Jun.)	N.Y.
A.B. 1942, Pennsylvania State College		†Cade, Inez Louise (Univ.)	D.C.
Burkhardt, Barbara Ellen (Univ.)	D.C.	†Caldwell, M. Lee (Univ.)	Ill.
Burman, Daniel (Col. 8)	D.C.	†Caly, Richard (Carlyle, Univ.)	N.Y.
Burn, Lester Freeman (F.A. 60)	D.C.	B.S. 1928, M.S. 1929, Cornell University	
Burnham, Paul F. (Col. A.M.)	Utah	Commencer, Alice Bailey (Col. 82)	Oreg.
A.B. 1931, The George Washington University		†Cattell, John James (Jun. 38)	D.C.
Burns, Ada Lee (Jun.)	D.C.	†Cagle, Martha Stuart (Univ.)	D.C.
Burns, James Theodore (Med. I)	D.C.	Cahn, Leonard (Eng.)	D.C.
Burns, John Fielding (Eng. 123)	Va.	Cahn, Elizabeth Lee (Jun. 12)	D.C.
Bursade, Marie Catherine (Univ.)	Iowa	Cairwell, Bruce (Jun. 38)	D.C.
Bursade, Melmon L. (Jun. 48)	Mass.	Cairwell, Samuel Crigwell (Jun. 61)	N.C.
†Bursman, Arthur Rowland (Law II)	D.C.	†Casson, Gertrude Anne (Univ.)	Pa.
B.S. 1925, A.M. 1926, Lafayette College		Casson, Ross (Jun. 34)	Ky.
Ph.D. 1929, Columbia University		†Catt, Margaret Farrar (Col. A.M. 18)	D.C.
Burris, Helen (Univ.)	Md.	A.B. 1924, Connecticut College for Women	
Burris, Henrietta Lee (Ed., Uncl.)	D.C.	Call, Utah Frances (Law I)	Kans.
Burroughs, Clara Hays (Univ.)	D.C.	A.B. 1930, Washburn College	
Burris, Mary Smith (Ed., A.M. 20)	D.C.	†Callahan, Arthur Abraham (Law II)	Md.
A.B. 1915, Brimley College		B.S. 1926, St. John's College	
Burke, Robert Lee (Jun.)	D.C.	†Callan, Jack Daniel (Eng. 11)	D.C.
Burke, Margaret Temple (Jun. 68)	N.H.	Cannon, William Bennett (Jun., Uncl.)	Ala.
Bush, Donald Porter (Law III)	Wyo.	Cable, J. William Lee (Eng. 3)	D.C.
Graduate 1926, U. S. Naval Academy		†Carr, Homer Washington (Univ.)	Md.
Burn, Kavanagh (Law III)	Ark.	Carr, Carl W. (Jun. 1)	D.C.
A.B. 1931, University of Arkansas		Carr, Carl W. (Jun. 1)	Pa.
Bush, Mary Louise (Ed. 54)	D.C.	Carr, Carl W. (Jun. 1)	D.C.
Burn, Rudolph M. (Ed., A.M.)	D.C.	Carr, Carl W. (Jun. 1)	D.C.
M.E. 1927, Lehigh University		Carr, Carl W. (Jun. 1)	D.C.
†Bushman, Vernon Louis (Col. 102)	D.C.	†Carr, Carl W. (Jun. 1)	D.C.
Busck, John Ross (Jun. 34)	Va.	†Carr, Carl W. (Jun. 1)	D.C.
Busard, Edward Auguste (Jun. 6)	D.C.	†Carr, Carl W. (Jun. 1)	D.C.
Buswell, Joseph Merrill (Univ.)	D.C.	†Carr, Carl W. (Jun. 1)	D.C.
B.S. 1931, Massachusetts Institute of Technology		†Carr, Carl W. (Jun. 1)	D.C.
Buter, Adelbert (Univ.)	N.Y.	†Carr, Carl W. (Jun. 1)	D.C.
Buter, Edward Fox (Ed. 103)	Va.	†Carr, Carl W. (Jun. 1)	D.C.
Buter, Henry Lee, II (Med. III)	Va.	†Carr, Carl W. (Jun. 1)	D.C.
Buter, Henry Lee (Phor. 24)	D.C.	†Carr, Carl W. (Jun. 1)	D.C.
Buter, Mary Marion (Col. A.M.)	D.C.	†Carr, Carl W. (Jun. 1)	D.C.
A.B. 1932, The George Washington University		†Carr, Carl W. (Jun. 1)	D.C.
†Butler, William Joseph (Univ.)	Md.	†Carr, Carl W. (Jun. 1)	D.C.
Graduate 1911, U. S. Naval Academy		†Carr, Carl W. (Jun. 1)	D.C.
Buttom, Lena Heaner (Ed., A.M.)	D.C.	†Carr, Carl W. (Jun. 1)	D.C.
A.B. 1932, The George Washington University		†Carr, Carl W. (Jun. 1)	D.C.
Bute, R. Beecher (Eng. 57)	Okla.	†Carr, Carl W. (Jun. 1)	D.C.
Buzia, Mary Ethel (Jun. 7)	Kans.	†Carr, Carl W. (Jun. 1)	D.C.
Buzko, Michael Jack (Jun. 1)	D.C.	†Carr, Carl W. (Jun. 1)	D.C.
†Buzee, Joshua Quinton (Univ.)	D.C.	†Carr, Carl W. (Jun. 1)	D.C.
A.B. 1924, The George Washington University		†Carr, Carl W. (Jun. 1)	D.C.
†Byrne, Anne (Univ.)	Md.	†Carr, Carl W. (Jun. 1)	D.C.
†Byron, David Wilson (Law II)	Md.	†Carr, Carl W. (Jun. 1)	D.C.
A.B. 1928, Yale University		†Carr, Carl W. (Jun. 1)	D.C.
†Byington, Ida Winthel (Ed. 83)	D.C.	†Carr, Carl W. (Jun. 1)	D.C.
†Byington, Moses Brown, Jr. (Law, LL.M.)	D.C.	†Carr, Carl W. (Jun. 1)	D.C.
Graduate 1917, U. S. Naval Academy		†Carr, Carl W. (Jun. 1)	D.C.
Ed. B. 1926, The George Washington University		†Carr, Carl W. (Jun. 1)	D.C.
†Byler, Emma Shumway (Ed., A.M. 15)	D.C.	†Carr, Carl W. (Jun. 1)	D.C.
A.B. 1928, The George Washington University		†Carr, Carl W. (Jun. 1)	D.C.
†Byron, David Wilson (Law II)	Md.	†Carr, Carl W. (Jun. 1)	D.C.
A.B. 1928, Yale University		†Carr, Carl W. (Jun. 1)	D.C.
Cable, Louella E. (Grad.)	S.Dak.	†Carr, Carl W. (Jun. 1)	D.C.
A.B. 1927, A.M. 1927, University of South Dakota		†Carr, Carl W. (Jun. 1)	D.C.

Carlston, LeGrand Alf (Law, I. L. M.)	Utah	Chamberlain, Chester Horace (Phar. 50)	Me
L. B. 1912, University of Utah		Chamberlain, Mabel Ruth (Jun. 32)	D.C.
Carlmark, Rose Waldman (I. L. 78)	D.C.	Chambers, Wayne (I. L. 122)	Ohio
*Carmichael, Elizabeth Huttler (I. L. A. M.)	D.C.	Chan, Abby Baker (Jun. 100)	D.C.
A. B. 1911, Flora Macdonald College		Chenail, Jeanne Franchon (Eng. 108)	Va.
Carlson, Louis G. (Law II)	D.C.	Chapin, Lucienne Murray (Med. II)	Me
Carnall, Arthur Rhodes (Law II)	D.C.	A. B. 1907, Bates College	
A. B. 1912, Harvard University		Chapman, Ireland Leon (Law III)	Idaho
Carnes, Samuel Craig (Jun. 70)	Ohio	B.S. 1908, University of Utah	Ia.
Carpenter, Arthur Bohman (Col. 75)	Md.	Chapman, Roy A. (Univ.)	
Carpenter, Gela Lyle (I. L. 134)	D.C.	B.S. 1917, University of Minnesota	Ohio
Carpenter, Edwin K. (I. L. A. M.)	D.C.	Charles, Philipp Lambert (Law III)	
M.S. 1911, Brown University		A. B. 1927, Gettysburg College	D.C.
Carpenter, Florence Mae (Jun. 7)	D.C.	†Chapman, Dorothy Ann (Jun. 99)	D.C.
Carpenter, Ralph Edmund (Jun. 7)	D.C.	Chastagnol, Emerson James (Jun. 160)	D.C.
Carpenter, Ray W. (Eng., Civil)	Md.	Chase, Merton (Med. IV)	D.C.
A. B. 1920, University of Nebraska		A. B. 1910, The George Washington University	
L. L. B. 1925, Georgetown University		†Chase, Philip Nye (Jun. 55)	Wash.
Carr, Daniel James (Univ.)	D.C.	Chase, Ruth Lillian (Jun. 94)	D.C.
Carr, Evelyn Gaudier (Univ.)	Md.	Chase, William David (Med. I)	Va.
Carr, Roland Taylor (Jun. 97)	D.C.	A. B. 1908, M. S. 1912, The George Washington University	
†Carrion, Robert Mortimer (Univ.)	D.C.	Chatham, Orme Ernest (Law II)	Hawaii
†Carrroll, Elizabeth Janette (Univ.)	D.C.	B.S. in C. E. 1922, University of Hawaii	N.C.
†Carrroll, Frances Cecilia (I. L. 54)	D.C.	Chatham, William Stanley (Jun. 24)	Calif.
†Carrroll, Katherine Letitia (I. L. 52)	D.C.	Chen, Ted Fung (Med. I)	D.C.
†Carrroll, William Simpson (Law I)	D.C.	†Chenckoff, Ida (Jun. 42)	D.C.
A. B. 1926, Harvard University		†Chenckoff, Jacob Fung (I)	Ind.
Carrroll, Zara Violet (Col. A. M. 10)	Pa.	Cherry, James W. (Jun. 92)	N.C.
University		Chesapeake, James C. (Law II)	Ohio
†Carter, Carrie Cathern (Jun. 31)	D.C.	Chesnut, Charles C. (Law I)	Va.
†Carter, Champ Stuart (Jun. 3)	D.C.	Chesning, Edward Alexander (Eng. 12)	Va.
†Carter, Frank Lyman (Jun. 26)	D.C.	Chesney, Robert Percival (Eng. 32)	D.C.
Carter, Joseph Alton (I. L. 194)	Mo.	Chesman, Katherine (Ph. I. L. S. 108)	D.C.
Carter, Wilfred Samuel (Univ.)	Ohio	†Chesman, Robert Benjamin (Jun. 59)	Calif.
Carton, Anthony Thomas (Med. II)	N. I.	Chespy, Jack Henry (Univ.)	Mo.
A. B. 1912, The George Washington University		Chesholm, Catherine H. S. (117)	
†Cary, Sara Glue (Jun. 42)	Kv.	A. B. 1924, The George Washington University	Md.
Cary, William Rex (Jun. 1, Uncl.)	Kv.	Chetrick, Charles Yantley (Law III)	
Carr, Paul H. (Med. III)	Ariz.	B.S. 1922, Massachusetts Institute of Technology	Mass.
Caslo, Leonard Paxdale (Col., Uncl.)	Conn.	Chittick, Howard Allen (Jun. 63)	D.C.
Caskey, Jane (Jun. 31)	D.C.	Chittum, Amanda Ellen (Jun. 31)	D.C.
†Cason, John Daniel (Jun. 3)	Mo.	†Christensen, M. A. Jane Caroline (Univ.)	N.I.
Cassidy, Richard Henry (Jun. 34)	Va.	Christensen, Odette Frederick (Med. II)	Nebr.
Cassil, Carroll Clayton (Jun. 6)	D.C.	†Christensen, Tom E. (Univ.)	Utah
Castel, Marian Elizabeth (Jun. 71)	D.C.	Christensen, William Julius (Law II)	
Cavert, Sarah Catherine (I. L. A. M.)	D.C.	A. B. 1928, A. M. 1930, University of Utah	
A. B. 1912, The George Washington University		Christman, Curtis Alford (Col. A. M.)	Mont.
Castell, Richard B. (Med. II)	D.C.	A. B. 1932, The George Washington University	D.C.
Casto, George K. (Law I)	Utah	Christie, Alfred (Jun. 3)	D.C.
Catchings, Benjamin (Eng. 1)	Mass.	Christie, Donald Pray (Jun. 1)	D.C.
Catchings, Joseph M. Kee (Eng. 45)	Mass.	Christie, Joan Ogilvy (I. L. 63)	Va.
Cave, Leah Huntley (Med. II)	Vt.	Christin, Jesse Roy (Grad.)	
A. B. 1922, The George Washington University		B.S. 1914, University of Kentucky	
Carling, Dorothy Grace (I. S. 57)	D.C.	M.S. 1918, University of Illinois	Md.
†Caul, Harold John (Univ.)	D.C.	Cosgrove, John Nelson (Jun. 60)	Conn.
B.S. in Ch. E. 1914, The George Washington University		Cosmanowski, Peter Paul (Jun. 80)	Kan.
Cavene, Hilford C. (Law II)	Okla.	Chouteau, Irene Evelyn (Jun. 20)	Mont.
Cavison, Howard (Col. 33)	D.C.	Chouteau, Joseph H. (Law II)	
Cecil, Mildred Flammer (Jun. 6)	M.I.	Roll in C. E. 1928, Kansas State Agricultural College	Md.
Cepson, Joseph (Med. I)	D.C.	Chow, B. Elizabeth Sarah (Col. 1)	Md.
†Ceranion, James Kenneth (Law I)	Va.	Chowell, William (Ind. de America, Jan. 10)	Me.
Chambers, Newton Lee (Jun. 31)	D.C.	Chowell, William (Ph. I. L. 10)	
Chadwick, Edna Parker (Jun. 1)	Va.	B.S. in Ch. E. 1920, University of Maine	Me.
Chadwick, Pauline (Jun. 1)	D.C.	Chapman, Wilbur Stanley (Jun. 54)	Ariz.
Chaffee, Helen Thelma (I. L. 20)	D.C.	Chubb, Houston V. (Col. 83)	D.C.
Chaffee, Betty Mae (I. L. 96)	D.C.	Chad, Robert Moody (Eng. 80)	
Chaffee, Rowen (Col. 83)	D.C.		
†Chamberlain, Bertha Lee (Col. 82)	S.C.		

# Students Registered

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Claiborne, Cornelia Faison (I.S. 96)	D.C.	Coble, Eugene I. (Law I)	Kans.
A.B. 1922, The George Washington University		Cochran, Henry Winston (Jun.)	Md.
Clan, James William (Jun.)	Conn.	Cochran, Samuel W. (Jun. Eng. 35)	D.C.
Clapman, Wentworth Rogers (Law III)	N.Y.	Cockle, Harry Howard (Law III)	Ark.
B.S. in C.T. 1920, The George Washington University		B.S. 1921, University of Virginia	
Clark, Alan H. (Jun. 30)	W.Va.	Cockran, Henry Ayre (Col. 35)	Ill.
Clark, Arthur Wormore (Eng. 40)	D.C.	Con, Bryan (Law II)	D.C.
Clark, David S. (Eng. 30)	Md.	A.B. 1922, The George Washington University	
Clark, Douglas Munro (Law II)	Va.	Cochell, Florence Ethel (Jun.)	D.C.
A.B. 1920, Hampton College		Coffin, George Q. (Law I)	Ark.
Clark, Elizabeth Haines (I.S. 76)	D.C.	A.B. 1920, Arkansas State Teachers College	
Clark, Esther Linger (I.S. 72)	D.C.	Coffin, Charles Alston (Jun.)	Ga.
Clark, Frank Marion (Univ.)	D.C.	Coffin, Lewis Charles (Law II)	Me.
Clark, Frank Mason (Jun. 55)	Va.	A.B. 1920, Bowdoin College	
Clark, Harry Lawrence (Jun. 71)	D.C.	Coffman, Virginia Lee (Jun. 38)	D.C.
Clark, Hugh Kemp (Law I)	Va.	Cogswell, Rosamond Florence (Ed. 125)	D.C.
B.S. 1921, The George Washington University		Cogswell, Ruth Atwood (Jun. 31)	N.Y.
Clark, Jane Adair (Jun. 70)	Ill.	Cohen, Abe M. (Med. II)	D.C.
Clark, Lester William (Eng. 38)	Va.	A.B. 1922, The George Washington University	
Clark, Lewis Jesse (Jun. 18)	Mass.	Cohen, Bernard (Law III)	Va.
Clark, Margaret H. (Jun.)	D.C.	Cohen, Emanuel Maurice (Col. 70)	D.C.
Clark, Mary Chantry (Col. A.M. I)	D.C.	Cohen, Joseph (Law I)	D.C.
A.B. 1922, Vassar College		Cohen, Isaac T. (Univ.)	D.C.
Clark, William Edgar (Jun. 32)	Ohio	Cohen, Isaac (Eng. 30)	D.C.
Clark, William F. (Univ. U.S.)	Va.	Cohen, Myrtle (Jun. 14)	D.C.
Clark, Hattie Brock (Law I)	D.C.	Cohen, Robert Louis (Jun. 30)	Va.
A.B. 1922, Wellesley College		Cohen, Benjamin Emanuel (Law II)	Ill.
Clarke, Marie Andrus (Col. 188)	Md.	B.S. 1921, University of Illinois	
Clarke, Rosamond N. (I.S. 112)	D.C.	Cole, Robert (Med. I)	D.C.
Clarke, Gladys Marion (Ed. A.M. 15)	D.C.	B.S. 1922, The George Washington University	
A.B. 1922, The George Washington University		Con, Hamilton (Jun.)	N.Y.
Clary, Elizabeth Wheeler (Univ.)	Md.	Coker, James Reaves (Univ.)	S.C.
Cady, William Duval (Jun. 34)	D.C.	Coker, Joseph Daniel (Col. 57)	S.C.
Caton, Arthur Kirby (Jun.)	D.C.	Col, Francis Gandy (Law)	Md.
Caton, Margaret Virginia (Col. 98)	Md.	B.Eng. 1921, Johns Hopkins University	
Cay, Dorothy E. (Jun.)	Ga.	Cole, Sarah Elizabeth (Jun.)	D.C.
Cay, Henry Scott, Jr. (Law II)	Ky.	Coleman, Oswald Semester (Law I)	Pa.
Cayton, Harry Webb, Jr. (Col. 53)	N.Y.	Graduate 1922, U.S. Naval Academy	
Il.B. 1922, The George Washington University		Coleman, Florence Beatrice (Col. 50)	D.C.
Clement, Armin Gerard (Law II)	Mass.	Coleman, Mary Virginia (Univ.)	D.C.
Clements, John Wolcott (Ph.D.)	D.C.	A.B. 1922, The George Washington University	
Ph.D. 1922, The George Washington University		Coleman, William Ernest (Med. III)	D.C.
Clements, Nellie G. (Univ.)	Md.	A.B. 1921, The George Washington University	
Cleveland, Richard Sumner (Col. A.M. 12)	Mass.	Coleman, Sidney Murray (Jun. 50)	D.C.
B.T.E. 1920, Lowell Textile Institute		Coleman, Dorothy Lacey (Jun. U.S.)	D.C.
Clew, William Bailey (Chas. 60)	Md.	Coleman, Raymond James (Col. 72)	Md.
Clock, Dora Ann (Grad.)	Ill.	Coleman, Anna E. (Univ.)	D.C.
A.B. 1922, Bradley Polytechnic Institute		Coleman, Howard Porter (Jun.)	D.C.
A.M. 1922, The George Washington University		Coleman, Hugh Percival (Ph.D. 44)	D.C.
Clock, Patrick A. (Eng. 53)	D.C.	Coleman, Joseph Crosby (Jun.)	D.C.
Cobb, William Hurd (Law 113)	Ala.	Coleman, Margaret Mary (Ed. 50)	D.C.
A.B. 1922, Birmingham-Southern College		Coleman, Virginia Whitfield (Univ.)	D.C.
Cobb, Mary Josephine (Univ.)	Va.	Coleman, Wayne E. (Jun. 27)	D.C.
Cochran, Albert (Law II)	Ohio	Coleman, S. Armstrong (Eng.)	China
Cochran, Byron Harrison (Med. III)	N.I.	Coleman, Charles Lily (Jun.)	D.C.
Cochran, Henry Roy (Law I)	Kans.	Commendatore, Leon, Jr. (Eng. 28)	Va.
Cochran, John Philip (Un. 188)	D.C.	Compton, Charles Percy (Jun. 26)	Va.
Cochran, Charles (Univ.)	Md.	Compton, Dorothy Elizabeth (Ed. 84)	D.C.
Cochran, Grace (Univ.)	D.C.	Con, Walter Owen (Jun.)	Mass.
Cochran, Roy McNeil (Eng. 54)	D.C.	Con, Harold Nelson (Jun. 37)	D.C.
Cochran, John W. (Law II)	D.C.	Con, Lewis (Univ.)	D.C.
A.B. 1922, Dakota Wesleyan University	S.Dak.	Conley, John G. (Law I)	D.C.
Coble, Jerome (Law I)	N.Y.	Con, George Thompson (Jun. 54)	D.C.
Coble, James Harold (Col. 99)	W.Va.	Con, Robert DeVon (Jun. 38)	Md.
		Con, Steven (Col. 71)	D.C.
		Connelly, Raymond Joseph (Univ.)	Mass.
		Ph.B. 1922, Boston College	
		Connor, Harry C. (Eng. 72)	D.C.



Connor, James Edward (Eng. 24) LL.B. 1926, Georgetown University	D.C.	Courtney, William Hasell (Law III) A.B. 1927, Vanderbilt University	La
Connor, Wesley Olin, Jr. (Med. I) B.S. 1924, University of New Mexico	N.Mex.	A.M. 1928, Stanford University	
*Conover, Ruth Averill (Ed. 105)	N.Y.	Cowden, Evangeline (Jun.)	N.Mex.
†Conroy, M. Leland (Jun. 12)	D.C.	Cowdell, Evelyn Louise (Jun. 12)	Id.
†Constantin, Ruth Kathryn (Col. 78)	D.C.	†Cowgill, Harold Guy (Law I)	Id.
Contenta, Salvatore Joseph (Med. II) B.S. 1927, Manhattan College	N.Y.	Cowgill, William Henry (Jun.)	Va.
Conway, James Vincent (Med. III) A.B. 1925, Cornell University	N.J.	Cowles, Carroll (Jun. 15)	Utah
Conway, William Hyams (Med. I)	N.Y.	Cowley, Charles Gloyd (Law III) B.S. 1928, Utah State Agricultural College	D.C.
†Cook, Alton B. (Jun., Uncl.)	D.C.	Cowling, James Edward (Eng. 20)	D.C.
†Cook, Charles Edward (Eng., Uncl.) B.S. in E.E. 1925, University of Florida	D.C.	†Cowall, Catherine Matilda (Ed., A.M. 7) A.B. 1923, The George Washington University	D.C.
†Cook, Charles Francis (Eng.)	D.C.	Cox, Ada Louise (L.S. 64)	Va.
†Cook, Claude Allen (Univ.)	D.C.	Cox, Elizabeth P. (Univ.)	D.C.
†Cook, Douglas Allen (Ed. 100)	D.C.	Cox, Frances Elizabeth (Ed. 88)	Va.
†Cook, Helma Bergman (Jun. 30)	D.C.	Cox, Frances Josephine (Jun. 18)	D.C.
†Cook, John Mason (Jun. 47)	N.Mex.	Cox, George Leadley (Univ.)	D.C.
†Cook, Margaret Elizabeth (Ed., A.M.) B.S. 1921, University of Maryland	D.C.	Cox, Margaret Mary (Jun. 18)	D.C.
†Cook, Marshall H. (Ed. 92)	Pa.	Cox, Mary Warrington (Jun.)	D.C.
†Cook, Martha Louise (Univ.)	D.C.	Cox, Mary Winifred (Jun. 12)	Mass.
†Cook, Mary Tatum (Jun. 88)	D.C.	Cox, Robert Alexander (Law I) A.B. 1931, University of Tennessee	Tenn.
†Cook, Sarah Catherine (L.S. 66)	Del.	†Cox, Thelma Cecelia (Ed. 91)	D.C.
†Cook, Thomas Blackwell (F.A., Uncl.) A.B. 1925, College of Wisdom and Mary	N.C.	Cox, Winnie Williamson (Ed. 101)	Va.
Coombs, Raymond Edward (Jun. 31)	Md.	Coyner, Ruth Emma (Ed., Ed. D.) B.S. 1927, Central State Teachers College	Okla.
†Coombs, Edith Ethel (Jun. 25)	D.C.	A.M. 1931, The George Washington University	
Coombs, J. Wendell (Law II) A.B. 1926, University of Utah	Utah	†Craft, Harold Albert (Univ.) B.S. 1926, Pennsylvania State College	P.C.
Coom, Mary Elizabeth (Jun. 51)	Iowa	M.S. 1930, The George Washington University	
Coomer, Charles Everett (Jun. 66)	Md.	†Cragun, Hazel Gabbard (Ed. 68)	Okla.
†Coomer, Everett Claude (Jun. 54)	Md.	Cragun, John Wiley (Law II) A.B. 1932, The George Washington University	Utah
Coomer, Margaret Hannah (Col. 81)	D.C.	Craig, Albert E. (Jun. 28)	D.C.
Coomer, Mennie Mildred (Col., A.M.) A.B. 1922, Louisiana State University	La.	†Craig, Dorothy Marie (Jun. 12)	D.C.
†Coomer, Wainwright (Col., Uncl.)	Iowa	†Craig, Lorraine Elizabeth (Jun.)	D.C.
†Copper, William Curtis (Univ.) L.E. 1922, Cornell University	Md.	Craig, Margaret Hjelm (Ed. 91)	D.C.
Copple, David (Jun.)	D.C.	Craig, Patrick Francis (Col. 107)	D.C.
Coppe, Irvin Leon (Jun. 84)	Okla.	Craig, Sam Baughman (Uncl.) A.B. 1923, Centis College	Ky.
Cope, John Luther (Jun. 34)	D.C.	A.M. 1928, The George Washington University	
†Coppes, Benson Ella (Ed. 64)	Md.	Crain, Lucile Alberta (Ed. 112)	D.C.
Cuthbert, Alton LeRoy (Jun. 12)	D.C.	Crain, Mary Gene (Jun. 32)	D.C.
†Cuzzocani, Ruth Johnson (Jun. 39)	D.C.	Crain, Naomi Virginia (Ed., A.M. 2) A.B. 1931, The George Washington University	D.C.
Cusano, Julia (Col. 110)	P.R.	Craine, Roger Nelson (Jun. 9)	Mo.
Cutler, Louis Fleming (Col. 105)	D.C.	†Cramer, Mary Amber (Col., A.M.) A.B. 1926, The George Washington University	D.C.
†Cutter, Mottie Irving (Med. III) A.B. 1925, The George Washington University	N.Y.	Crampton, Guy Edwin (Jun. 15)	D.C.
Cotex, Walter Van Arsdale (Med. IV) †Cornell, Lou A. (Univ.) A.B. 1927, A.M. 1929, University of Colorado	N.Y.	Crampton, Virginia Florence (Jun. 40)	D.C.
†Cornette, Estelle Baldwin (Col., A.M.) A.B. 1929, The George Washington University	Colo.	Crane, Betty (Jun., Uncl.)	D.C.
Cornish, L. L. Herrscher (Col. 100)	Va.	Crane, Catherine Harrington (Jun. 62)	D.C.
†Corrigan, Robert F. (Jun., Uncl.)	D.C.	Crane, Leo Stanley (Eng. 19)	Id.
Corson, Dorothy Marshall (L.S., Uncl.) A.B. 1925, Goucher College	Md.	Crane, Wilfred Steven (Law III) B.S. in C.E. 1913, Carnegie Institute of Technology	
Cowan, Harold Bevan (Law II)	D.C.	Crapolucchio, Dante Vincent (Med. II) A.B. 1931, Holy Cross College	Man.
Coydon, Louis (Law II) A.B. 1922, The George Washington University	Mich.	†Craven, Robert Lamar (Col. 94)	S.C.
†Cowan, August Maria (Univ.)	D.C.	Craver, Naomi Pate (Col., A.M. 9) A.B. 1916, North Carolina College for Women	Va.
†Cowan, Elizabeth (Univ.)	R.I.	Crawford, Frances Victoria (Jun.)	D.C.
†Cowan, Jane Catherine (L.S., A.M.) A.B. 1924, The George Washington University	D.C.	Crawford, Francis Holland (Jun. 31)	D.C.
†Coulston, Clemency King (Law III)	D.C.		



# Students Registered

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Crawford, Jane Elizabeth (Ed., A.M. 19)	D.C.	(Cullen, Virginia C. (Ed., A.M.)	D.C.
A.B. 1926, Guilford College		A.B. 1926, The George Washington University	
Cree, J. Rowan (Med. II)	Utah	Cullen, Frank L. (Col., A.M.)	Miss.
Crichton, Charles Richard (Col. 68)	Ill.	B.S. 1925, Mississippi State College	
Croft, F. Carroll (Jun. 84)	Kans.	Culmore, Leonard E. (Med. III)	Utah
Croyle, Geoffrey, Jr. (Law II)	D.C.	A.B. 1925, The George Washington University	
A.B. 1925, The George Washington University		Culmer, Orpha Ann (Grad.)	Ala.
Croyle, Richard Paul (Jun.)	D.C.	A.B. 1924, A.M. 1925, University of Montana	
Croyle, Benjamin Francis (Jun.)	D.C.	A.M. 1925, University of Michigan	
Crocket, Charles Gordon (Jun. 69)	Ind.	(Culver, Julian George (Law II)	Ind.
Croft, Marie Margaret (Univ.)	Va.	Cummings, Kathleen (Jun. 35)	Va.
Critchfield, Charles Lanny (Col. 81)	Ohio	Cummings, Thomas (Jun. 37)	D.C.
Critchfield, Clara Irma (Col. 68)	Ohio	Cunningham, Carol Leigh (Govt. 70)	Kans.
Critchfield, Ruth Lola (Jun.)	Ohio	Cunningham, Edward Percy (Col., A.M.)	Okla.
Crittenden, Eugene Casson, Jr. (Col. 68)	D.C.	A.B. 1925, Boston Public College	
Crittenden, John William (Law 24)	D.C.	(Cunningham, Helen (Ed., A.M.)	Pa.
Crittenden, Margaret (Ed. 1929)	D.C.	A.B. 1925, The George Washington University	
Crocker, Nina Marie (Col. 66)	D.C.	Cupp, Norma Alice (Jun. 14)	Va.
Crocker, Alphonse (Univ.)	D.C.	Cutler, Harold W. (Govt., A.M.)	D.C.
Crocker, Cynthia Amelia (Univ.)	Ind.	A.B. 1925, The George Washington University	
B.S. 1925, Indiana College		(Cutler, Mabel Eleanor (Univ.)	D.C.
Crocker, J. Allen (Univ. 92)	Ind.	Cutler, Daniel, Jr. (Col. 34)	Ind.
Crocket, George Nathan, Jr. (Jun. 9)	D.C.	Cutler, John Edward (Law I)	Ind.
Croft, George W. (Jun. 3)	Va.	Graduate 1925, U. S. Naval Academy	
Crown, Margaret Louise (Jun. 42)	D.C.	Chapman, Robert Wood (Govt. 194)	D.C.
Crownwell, Frederick Packell (Law III)	Ill.	(Chapman, Stuart (Law I)	Ill.
B.S. 1925, University of Illinois		A.B. 1925, University of Illinois	
Crow, Linden Edgar (Law III)	Utah	A.M. 1925, The George Washington University	
B.S. 1925, University of Utah		Cutler, Katherine Marie (F.A. 84)	Ind.
Crosby, Elizabeth (Jun.)	Ill.	Cutting, Charles Andrew (Law II)	Me.
Crosby, Albert George (Jun. 24)	Pa.	B.S. 1925, University of Maine	
Crosby, Vera Mary (Law II)	Pa.	Cyr, Patrick Henry (Univ.)	Me.
Cross, Allen Slayman (Med. II)	D.C.		
Cross, James Garland, Jr. (Jun. 32)	Ind.		
Cross, John Walker (Law, I.L.M.)	D.C.		
B.S. 1925, Kansas State Teachers College			
L.L.B. 1925, The George Washington University			
Cross, Laura Elizabeth (Univ.)	Mo.		
A.B. 1925, Lindenwood College			
Crow, L. 1925, Columbia University			
Crowder, Barbara (Jun. 70)	Ohio	Dahl, Andrew J. (Col., A.M. 24)	Minn.
Crowder, George (Jun. 51)	D.C.	A.B. 1925, St. Olaf College	
Crowley, Reba Miller (Univ.)	D.C.	Dahl, Leonard Wheeler (Col., Und.)	N.Y.
Crowley, Edward Calhoun (Jun. 42)	D.C.	(Dahl, Dan (Col., A.M. 3)	D.C.
Crowley, Howard (Jun. 28)	Va.	Ch E. 1925, Chalmers Institute, Sweden	
Crowley, Paul Carson (Jun. 27)	D.C.	Dahl, Gordon Wilfred (Law III)	D.C.
Crowley, William Henry (Jun. 48)	D.C.	Graduate 1925, U. S. Naval Academy	
Crowley, William Austin (Eng. 38)	Miss.	Dake, Eva Mae (Jun.)	Ohio
(Crouter, Earl Clinton (Law, I.L.M.)	Wyo.	Dale, William John (Jun. 32)	Pa.
A.B. 1925, L.L.B. 1925, The George Washington University		(Dalton, Ruth Gertrude (Jun.)	W.Va.
(Crouter, Robert (Eng.)	D.C.	Dalton, Tom (F.A. 80)	S. Mex.
Crowder, Grace Wilcox (Univ.)	D.C.	Dalton, George Charles (Jun. 37)	D.C.
Crowley, Robert (Jun. 24)	D.C.	(Dalton, Ursula Gabrielle (Jun. 12)	Me.
Crowley, Eleanor Louise (Ed. 81)	D.C.	Dalton, Deborah Ewon (Jun. 63)	D.C.
Cruckshank, Benjamin Carpenter (Univ.)	D.C.	Dalton, Frank Clinton, Jr. (Jun. 34)	D.C.
B.S. in M.F. 1925, The George Washington University		(Dalton, Mark (Col. 75)	D.C.
Crow, Edna Laid (Ed. 60)	D.C.	Dalton, Abraham Wable (Jun.)	D.C.
Crow, Federico Palarea (Univ.)	D.C.	Dalton, Jacob Meyer (Jun. Und.)	D.C.
Cuba, Anastasio Pizarro (Jun.)	P.I.	Dalton, Arthur Vincent (Jun. 74)	Ind.
Cuba, Espiridon Pizarro (Col., A.M. 60)	P.I.	Dalton, Samuel Peter (Med. IV)	S.C.
B.S. 1925, The George Washington University		Dancourt, Virginia Margaret (Ed., Und.)	D.C.
(Deceased)		Dancovsky, Joseph Isaac (Col. 62)	D.C.
Deback, Nelson Charles (Law II)	N.Y.	Darby, Joseph Victor (Univ.)	D.C.
F.E. 1925, Rensselaer Polytechnic Institute		(Darby, Horace Volney (Eng. 104)	D.C.
(Deaton, Frances Ruth (Univ.)	D.C.	(Darby, Richard C. (Univ.)	D.C.
A.B. 1916, Flora Macdonald College		B.S. 1925, University of Illinois	
		Dart, Ann Katherine (Univ.)	D.C.
		(Dart, Martha Belle (Univ.)	D.C.
		Davis, Arnold Roy (Col., A.M. 18)	Ind.
		B.S. 1925, Northwestern University	
		(Davis, Thomas Reynolds (Univ.)	D.C.
		Davenport, Wayne (Jun.)	Tex.
		Davey, Grace Elizabeth (L.S. 78)	Pa.

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Davidson, Howard MacDougal (Univ.)	D.C.	DeLucia, Vincent William (Jun. 24)	Conn.
Davidson, Lester Gilbert (Jun. 65)	Nebr.	deMarco, Joseph, jr. (Med. II)	Mass.
Davis, Arthur Marshall (Law III)	Ariz.	A.B. 1931, Clark University	Mo.
†Davis, Barbara Alberta (Jun. 6)	D.C.	Deming, Harry Leroy (Jun. 1)	D.C.
Davis, Benjamin Lawrence (Jun. 20)	Ohio	DeMott, Theodore Otto (Law I)	Ky.
Davis, Cresson Orion (Law I)	D.C.	Dempsey, James Ryan (Eng. 1903)	Mass.
A.B. 1921, The George Washington University		DeMott, Frederick W. (Jun. 23)	D.C.
Davis, Donald Johnson (Jun.)	D.C.	Denenberg, Leila (Ed. 65)	D.C.
Davis, Edna C. (Jun. 24)	Kans.	Dengler, Helen Marjorie (Jun.)	D.C.
†Davis, Edward Lloyd (Univ.)	Wash.	†Dennett, Richard Rodney (Univ.)	D.C.
Davis, Elsie Armstrong (Univ.)	Md.	Graduate 1921, U. S. Naval Academy	
B.S. 1930, Fredricksburg State Teachers College		Denno, Milton L. (Law II)	D.C.
Davis, Frances Strunk (Jun.)	Va.	A.B. 1931, The George Washington University	
Davis, Frederic D. (Eng. 16)	D.C.	Dennis, Virginia Loretta (Jun. 34)	D.C.
Davis, George Vernon (Eng. 22)	D.C.	Dennis, Fred M. (Jun. 43)	D.C.
†Davis, Henry Col. 1903	D.C.	Dent, John Clayton (Eng. Uncl.)	Mo.
Davis, Hilda Myrth (Jun.)	Md.	Denton, Charles Alexander (Law 81)	Va.
Davis, Jack Butler (Jun.)	D.C.	dePauw, John Joseph (Col. 81)	N.Y.
Davis, Jack Clemens (Eng. 62)	D.C.	deRoman, Josephine (Col. 90)	Uncl.
Davis, John Haywood (Jun. 14)	Va.	†Derrenger, Calvin Wittenberg (Jun.)	Mont.
†Davis, Louise Modelmog (Univ.)	W. Va.		D.C.
†Davis, Margaretta Barbara (Jun.)	Va.	†Desmond, Gerald Leroy (Col. A.M.)	Mo.
†Davis, Mary Col. 88	Va.	B.S. 1926, University of California	
Davis, Marjorie Griswold (Jun. 21)	D.C.	Despina, Silas Leland (Jun.)	D.C.
†Davis, Nancy Melle (Univ.)	Md.	Detwiler, Dorothy Mattan (Jun. 1)	D.C.
Davis, Ransom Kirby (Law III)	Fla.	Detwiler, Mary Herman (L.S. 84)	N.Y.
Graduate 1922, U. S. Naval Academy		Detwiler, Samuel Bertrant, Jr. (Col. 100)	Uncl.
M.S. 1927, Harvard University		Detwiler, Morris Robert (Jun. 53)	Uncl.
Davis, Richard Douglas, III (Jun.)	Pa.	†Detwiler, Nathan F. (Law I)	N.Y.
Davis, Robert J. (Col., A.M. 9)	Mo.	†Devakul, Bongdebb (Jun. 33)	N.Y.
A.B. 1921, The George Washington University		†DeVane, Ruth Elizabeth (Col., A.M.)	D.C.
Davis, Selby Brinker (Eng.)	D.C.	A.B. 1932, The George Washington University	
Davis, Thomas Joel (Law I)	Ga.	DeVane, Grace M. (Univ.)	Min.
†Davis, Warren Harrison (Univ.)	D.C.	B.S. 1926, M.S. 1927, University of Minnesota	
Davis, William Harris, jr. (Col. 90)	N.C.	DeVau, Joseph Harold (Law I)	Md.
†Davison, Lucille Glover (Col. A.M.)	D.C.	B.S. 1931, University of Pennsylvania	
A.B. 1925, The George Washington University		Dewees, Anne (Col. 116)	Uncl.
Dawes, Gladys Meredith (Jun. 40)	Ky.	DeWeese, Martha (Univ.)	Min.
Dawson, Roy Carlton (Jun. 11)	D.C.	DeWine, Thomas A. (Jun.)	Uncl.
Day, Dorothy Isabel (Jun.)	Pa.	Dewol, Donald Patton (Col. 71)	N.Y.
Day, John William (Eng. 06)	Mass.	†Dexter, Stanley Edward (Univ.)	N.Y.
Dayhoff, Charles Hal. (Col., A.M. 6)	Tenn.	Diamond, David (Med. III)	
A.B. 1931, Virginia Military Institute		A.B. 1926, The George Washington University	
†Dayton, Elizabeth May (Ed. 87)	Ga.	Diamond, Herbert Harold (Med. II)	D.C.
Deal, Emma Grace (Ed. 190)	D.C.	Diamond, Isabella Stevenson (L.S. 102)	N.Y.
Dean, Isabel Champlin (L.S. 92)	Md.	A.B. 1927, Brown Mary College	
†Deatherage, John Robertson (Univ.)	Tenn.	†Diaz, Alipho Dacanay (Col., A.M.)	Pa.
B.S. 1925, University of Tennessee		A.B. 1912, The George Washington University	
DeBerry, Myra Jones (L.S. 112)	Va.	Dibble, Lawrence Donald (Law I)	
d'Eca, Raul M. C. (Grad.)	D.C.	B.S. 1928, Dickinson College	N.Y.
Decker, Martin (Med. IV)	Wis.	†Dick, Frederick F. (Grad.)	
A.B. 1930, Capital University		B.S. 1925, M.S. 1927, The George Washington University	D.C.
†Deem, Glen Harold (Jun.)	D.C.	Dick, Sam Jack (Jun. 37)	D.C.
†Deener, Elizabeth Margaret (Ed. 76)	D.C.	Dickens, John Robert (Eng. 78)	Ohio
Duffinbaugh, Ruth (L.S., A.M. 18)	D.C.	Dickens, Paul DeWitt (Grad.)	
A.B. 1927, West Virginia University		A.B. 1922, Hiram College	
†DeFrancis, Thomas Joseph (Eng.)	D.C.	A.M. 1927, The George Washington University	
DeLand, Allan Stanley (Law I)	Md.	Dickens, Paul Frederick, Jr. (Jun.)	D.C.
B. 1926, Washington and Lee University		Di Terman, George Lyman (Law III)	Conn.
†Delaney, Catharine O'Donoghue (Jun., Uncl.)		B.S. 1927, Middlebury College	Mass.
†DeLashmure, John Eagle (Univ.)	Va.	†Dickstein, Ernest Burchell (Univ.)	Va.
†DeLathouder, John Anthony (Jun.)	D.C.	Dickstein, Robert (L.S., A.M. 12)	
DelCollano, Michael Rocco (Med. I)	N.J.	A.B. 1915, The George Washington University	Va.
A.B. 1932, University of Alabama		†Dickert, Robert (Col., A.M. 11)	
D'Elia, Marie Beatrice (Jun.)	D.C.	B.S. 1929, Fredricksburg State Teachers College	
Delt, Ovington Gordon, Jr. (Jun. 42)	D.C.		
Dell, John Peter, Jr. (Law II)	Ga.		
Ph.B. 1929, Emory University			





Dunlap, Kitty Gray (Col., A.M.) A.B. 1932, College of William and Mary	Fla.	Ebel, Leonard Herman (Govt. 788) Eberle, Bayne (Col. 80)	Ind
†Dunlap, Myra Lynn (L.S. 120) A.B. 1924, University of Mississippi	Miss.	†Eberlein, Marcia (Col. 82) †Eberly, Catharine Howard (Univ.) A.B. 1925, Vassar College	Ark Mo D.C.
Dunlap, Walter Jennings (Eng.)	N.C.	†Ehrlich, Louis Scott (Ed. 88)	D.C.
Dunn, Helen Field (Univ.)	D.C.	†Echavarría, Francisco (Med. I)	N.Y.
Dunnington, Kathryn Estelle (Jun. 36)	D.C.	†Eck, Dorothy E. (Jun. 15)	Pa.
†DuPuy, Marguerite Gillette (Univ.) A.B. 1925, A.M. 1928, Southern Methodist University	Tex.	†Eckert, Catherine Elizabeth (Jun. 92) Eckles, Anita Heinrich (Univ.) A.B. 1928, The George Washington University	D.C. D.C.
Durand, Eric (Col. 78)	D.C.	†Eckloff, James Edmund, jr. (Jun. 8)	D.C.
Durham, Lewis M. (Col. 85)	D.C.	Edfeldt, Theodore R. (Jun. 24)	D.C.
Durham, Richard Claiborne (Law I)	Va.	†Edgar, Gilbert Erdman (Univ.)	Mo.
Durkin, Dorothy Francis (Jun. 20)	D.C.	Edlavitch, Sylvia (Col. 121)	Mo.
Durnbaugh, Evelyn Grace (Ed. 111)	D.C.	Edlowitz, Ellis (Law III)	D.C.
†Durr, Gordon Valney (Univ.) B.S. 1929, Carnegie Institute of Technology	D.C.	A.B. 1930, The George Washington University	
Dushabek, James Albert (Med. III)	N.Dak.	†Edmonds, Lincoln Parker (Law I)	Mass.
†Dutton, Harold H. (Eng.) B.S. in C.E. 1924, The George Washington University	D.C.	Edmonds, Audrey FitzHugh (Jun.) Edmondson, James Henry (Phar. 62) Edmonston, James Harvey (Col., A.M. 9)	Va. Mo. D.C.
Duvall, Jane Sedgwick (Jun. 42)	Md.	A.B. 1932, The George Washington University	
Dworkin, Gertrude (Jun. 9)	D.C.	Edmonston, Thomas Ritchie (Univ.)	D.C.
Dworsky, Alexander (Jun.)	N.Y.	Edwards, Edith Viola (Col., A.M. 25)	(Mo.)
Dwyer, Adelaide (F.A., A.M. 19) A.B. 1930, The George Washington University	D.C.	A.B. 1930, The George Washington University	
Dye, Archie Wellons, jr. (Jun. 50)	N.C.	Edwards, Geniana R. (Jun. 71)	D.C.
Dye, Elden Hobson (Law III)	Utah	†Edwards Hamilton Hays (Univ.)	Iowa
Dye, Geneva Margaret (Med. IV) A.B. 1930, The George Washington University	D.C.	†Edwards, Ivan Reo (Law II) B.S. in M.E. 1929, University of Texas	Tex. D.C.
†Dyer, Ben H. (Univ.)	Ala.	Edwards, Jane Rita (Jun. 15)	D.C.
†Dyer, Betty Burr (Univ.)	D.C.	Edwards, Joe O. (Ed. 72)	Mont.
†Dyer, Edward Lathrop (Col., A.M. 12) A.B. 1909, Amherst College	D.C.	†Edwards, Lily Watson (Univ.) †Edwards, Rowland (Law III) Ph.B. 1931, University of Chicago	Kans. Ill.
Dyer, Evelyn Virginia (Ed. 54)	Va.	Esner, Laurence V. (Law II)	
Dyer, Hazel Elizabeth (Ed., A.M.) A.B. 1932, The George Washington University	D.C.	B.S. in M.E. 1928, Armour Institute of Technology	
Dyer, Helen Marie (Grad.) A.B. 1917, Goucher College M.S. 1929, The George Washington University	D.C.	†Eggen, Arnold (Univ.) †Egle, Clara (L.S., A.M. 9) A.B. 1930, The George Washington University	Neb. N.J.
†Dyer, Russell (Eng. 22)	D.C.	Ehlshlager, Adam (Jun. 28)	D.C.
Dyer, William W., jr. (Law II)	D.C.	Ehlshlager, Dorothy Elizabeth (Univ.)	D.C.
Dyke, Irvin Sawyer (Jun. 18)	D.C.	Ehouse, Theodore Eliot (Jun., Uncl.)	Wis.
†Dyson, Elnora Shirley (Jun.)	Va.	Eichler, Bessie Rossmiller (Law II) B.S. 1927, Beloit College	D.C.
E			
Eager, Thomas Hayward (Law III)	Wash.	Edit, Venton Ray (Ed. 51)	Calif.
Eamich, Richard James (Jun. 38)	Md.	Eklund, Raymond Thorwald (Med. III) A.B. 1930, Stanford University	D.C.
Earl, Joseph Donal (Jun. 18)	Nev.	†Elder, Clarence M. (Eng. 83) LL.B. 1931, The George Washington University	Utah
Earl, Rulon A. (Jun. 45)	Nev.	Elder, Harry M. (Med. III)	
Earle, Elizabeth Carpenter (Col. 98)	D.C.	A.B. 1920, University of Utah	N.Y.
Earle, Julius Richard (Law I)	D.C.	Eldridge, Eugene K. (Jun.)	Ark.
Earle, Robert Lindsay (Law I) A.B. 1930, The George Washington University	Wis.	Eldridge, John Dupree, jr. (Law III) A.B. 1929, University of Arkansas	Md.
†Earnest, Mildred (Ed., A.M. 9) A.B. 1930, The George Washington University	D.C.	Elgin, Arthur Carpenter (Law II) A.B. 1928, St. John's College	D.C.
Easterday, Rae Brown (Ed. 60)	D.C.	†Elgin, Nelson Caughy (Univ.) †Elgin, Ruth St. Clair (Univ.)	Va.
Easterson, Bernard (Jun. 28)	D.C.	A.B. 1924, A.M. 1932, The George Washington University	N.Y.
Easterson, Lenora Ruth (Jun.)	D.C.	Elisso, Pasquale Pio (Med. IV)	
Eastham, Robert (Jun.)	D.C.	A.B. 1930, Columbia University	Md.
Easton, Grace Elizabeth (Ed., A.M. 16) A.B. 1912, North Carolina College for Women	N.C.	Elkins, Earl Cook (Med. IV) B.S. 1927, Buena Vista College	D.C.
Eaves, Robert Wendell (Ed., A.M. 17) A.B. 1928, University of North Carolina	Va.	Ellenberger, William Joseph (Eng.) B.S. in E.E. 1930, The George Washington University	



# Students Registered

XXXV

Eller, Ernest McNeill (Col., A.M.) Graduate 1935, U. S. Naval Academy	N.C.	•Eury, Dorothy Vernon (Col. 120)	Tex.
Eller, Evelyn Virginia (Col., A.M.) A.B. 1932, The George Washington University	D.C.	Evans, Dana Raymond (Jun.)	W.Va.
†Eller, Robert Lloyd (Jun.)	D.C.	Evans, Helen Louise (Jun. 31)	Md.
†Ellfeldt, Lois Elizabeth (Ed. 98)	D.C.	†Evans, I. Cartall (Univ.)	D.C.
†Elliott, Herbert Jennings (Eng. 5)	D.C.	Evans, John Robert (Eng. 44)	D.C.
†Elliott, William E. (Law II)	Ga.	Evans, Joshua, III (Jun.)	D.C.
B.S. 1930, Georgia School of Technology		Evans, Robert Lee (Law III)	D.C.
Ellis, Greer (Jun. 89)	D.C.	B.S. in M.E. 1929, University of Maryland	
†Ellis, John Flather (Jun. 30)	D.C.	Evans, William Walder (Law II)	Md.
Ellis, M. Emily Pollock (Univ.)	D.C.	A.B. 1930, University of Maryland	
Ellis, Virginia Margaret C. (Col. 81)	D.C.	Everett, Charles Edward (Jun. 55)	D.C.
Ellis, William Leigh (Law III)	Mich.	Everett, John Ellsworth (Jun. 74)	D.C.
A.B. 1929, Hilldale College		Everett, Kathryn Lucille (Col. A.M. 12)	D.C.
Ellison, Enoch Edward (Law II)	W.Va.	A.B. 1931, The George Washington University	
Ellison, Caroline Shafer (Univ.)	Pa.	Everhart, Nannie M. (Jun.)	Md.
Elms, Margaret Edelin (Jun. 56)	Md.	•Fell, Raymond Henry (Col., A.M. 7)	D.C.
Elms, Nannette Isabel (Jun. 28)	Md.	B.S. 1928, University of Toledo	
Elsherry, Ernest L. (Law II)	N.Dak.	Fewis, Alys Helene (Col., A.M. 28)	D.C.
†Elsworth, Merle Margaret (Univ.) A.B. 1930, University of Michigan	D.C.	A.B. 1927, The George Washington University	
Embre, Jack (Jun. 33)	Va.		
Embre, Jerry Elizabeth (Jun.)	D.C.		
Embre, Lee Anna Pemberton (Col. 06)	D.C.		
Embre, Mrs. Barton Stone (Ed. 48)	D.C.		
Emery, Estelle Boughton (L.S. 03)	D.C.		
Emery, George Frederick (Col., A.M.)	Conn.		
B.S. 1932, Middlebury College			
Emmatt, George Allen (Phar. 30)	D.C.		
Engel, Homer (Jun. 13)	China		
Engel, Gilbert A. (Eng. 65)	N.Dak.		
England, Joseph Loveday (Eng. 64)	D.C.		
†English, Margaret Key (Jun.)	D.C.		
†English, Martha C. (Univ.)	D.C.		
†Ennis, Meta Alden (Jun. 25)	Pa.		
Eno, Arthur Raymond (Eng. 92)	D.C.		
Enrville, Theodore Stanley (Jun. 75)	Md.		
Enyard, Byron K. (Law III)	Va.		
A.B. 1932, The George Washington University			
Epaminonda, John G. (Law II)	N.J.		
†Epstein, Joseph George (Med. IV)	N.Y.		
A.B. 1930, The George Washington University			
Epstein, Julius (Phar. 33)	D.C.		
Epstein, Julius, jr. (Jun. 39)	D.C.		
Epstein, Morris (Col. 69)	D.C.		
Epstein, Richard (Med. III)	N.Y.		
A.B. 1930, The George Washington University			
†Epstein, Victor Jack (Jun. 61)	N.Y.		
†Erickson, Emil Theodore (Univ.)	D.C.		
A.B. 1916, University of Utah			
†Erickson, Mary Elizabeth (Law II)	Wash.		
Ervin, Doris Wilde (Jun. 34)	Va.		
Ervin, Marion Laura (Jun. 26)	Va.		
Erwin, Katherine Adelaide (Univ.)	N.C.		
A.B. 1915, North Carolina College for Women			
Escalona, Mariano E. (Col., A.M. 13)	Minn.		
A.B. 1930, St. Thomas College			
†Eskew, Virginia Pocahontas (Univ.)	La.		
†Eney, Blake Branson (Ed., A.M. 3)	D.C.		
A.B. 1931, American University			
Etienne, Alexander Jeremiah (Law II)	N.Y.		
E.E. 1925, Rensselaer Polytechnic Institute			
Etienne, Wolcott Loweree (Univ.)	Md.		
B.S. 1932, University of Maryland			
†Eugenio, Porfirio Fidel (Eng. 25)	P.I.		
Enhas, Muriel Ione (Law I)	Va.		
B.S. 1932, College of Charleston			
		•Fury, Dorothy Vernon (Col. 120)	Tex.
		Evans, Dana Raymond (Jun.)	W.Va.
		Evans, Helen Louise (Jun. 31)	Md.
		†Evans, I. Cartall (Univ.)	D.C.
		Evans, John Robert (Eng. 44)	D.C.
		Evans, Joshua, III (Jun.)	D.C.
		Evans, Robert Lee (Law III)	D.C.
		B.S. in M.E. 1929, University of Maryland	
		Evans, William Walder (Law II)	Md.
		A.B. 1930, University of Maryland	
		Everett, Charles Edward (Jun. 55)	D.C.
		Everett, John Ellsworth (Jun. 74)	D.C.
		Everett, Kathryn Lucille (Col. A.M. 12)	D.C.
		A.B. 1931, The George Washington University	
		Everhart, Nannie M. (Jun.)	Md.
		•Fell, Raymond Henry (Col., A.M. 7)	D.C.
		B.S. 1928, University of Toledo	
		Fewis, Alys Helene (Col., A.M. 28)	D.C.
		A.B. 1927, The George Washington University	
		F	
		Fagelson, Bernard Melvin (Law I)	Va.
		Fairchild, Helen Christina (L.S. 120)	Va.
		Fairman, Richard Heymes (Eng. 84)	Md.
		Fales, Warren Dexter (Jun. 88)	Md.
		Faulstich, Edward Joseph (Jun. 48)	Conn.
		Farhood, William N. (Jun. 60)	D.C.
		Fatley, Rex I. (Med. IV)	N.I.
		Farrell, Katherine Louise (Jun. 15)	D.C.
		Farrington, Bert William (Jun. 57)	Mo.
		Farrington, Claud Max (Ed., A.M. 8)	D.C.
		A.B. 1927, Westminster College	
		†Farris, Laura Williams (Col. 80)	Me.
		Farris, Frances Charlotte (Jun.)	Tex.
		Faust, Mary Catherine (Med. II)	N.I.
		A.B. 1932, The George Washington University	
		Fay, Charles R. (Law II)	Mass.
		†Fegley, Joseph Marley, jr. (Jun. 6)	D.C.
		Feiker, Gretchen (Jun. 38)	D.C.
		Feiker, Janet (Jun. 30)	D.C.
		Feldman, Alfred Samuel (Jun. 38)	D.C.
		Feldman, Irvin (Med. IV)	D.C.
		A.B. 1930, The George Washington University	
		†Feldman, Samuel (Univ.)	D.C.
		Feliser, A. Vernon (Col. 90)	Pa.
		Felstone, Benjamin (Law III)	D.C.
		B.S. 1931, The George Washington University	
		†Feldstone, Rose (Jun. 15)	D.C.
		Feller, William (Med. III)	N.J.
		B.S. 1927, Rutgers University	
		A.M. 1930, The George Washington University	
		†Fellner, Willard Edmund (Univ.)	D.C.
		Felser, Jeanette (Jun. 32)	D.C.
		Fesser, Selma Lee (Col. 98)	D.C.
		†Feinstein, Jack (Jun.)	D.C.
		Fenby, Mary Louise (Jun. 67)	D.C.
		Fenlon, John (Ed. 122)	Mich.
		Fennell, Helen Mary (Jun.)	D.C.
		†Fennell, Reginald Edward (Univ.)	Md.
		Fengrenmaker, Vera (Ed. 22)	D.C.
		Fenwick, Helen Woodard (Jun. 30)	Ohio
		Ferchauer, Jack Alouse (Law II)	D.C.
		Ferchauer, Robert W. (Eng.)	D.C.
		Ferguson, Edward Eigner (Med. II)	D.C.
		†Ferguson, Emma E. (Univ.)	S.Dak.
		Ferguson, William Richard (Jun. 9)	Iowa

Fern, Leda (Jun.)	N.Y.	Flagg, Verna Mary (F.A. 57)	Ill.
Fern, Robert (Jun. 24)	D.C.	A.B. 1922, The George Washington University	
Fernst, Evelyn Elizabeth (Ed. 72)	D.C.	†Flaherty, John Edward (Univ.)	D.C.
Ferrando, E. Blas (Med. I)	P.R.	Flax, David Morton (F.A. 21)	D.C.
Ferrier, Theodore L. (Univ.)	Kans.	Fleck, James Horace (Law III)	Pa.
*Ferry, Nathan Lester (Govt. 119)	N.Y.	A.B. 1925, The George Washington University	
Ferry, Mary M. (Jun.)	Pa.	Flennig, Clarence Hare (Jun. 44)	Ill.
Ferry, Thomas Francis (Ed., A.M. 32)	D.C.	Flennig, William Wright (Law III)	Mo.
A.B. 1925, Georgetown University		Flemming, Arthur Sherwood (Law III)	N.Y.
Fesler, Clarence Marley (Col. 84)	Ill.	A.B. 1927, Ohio Wesleyan University	
Fewell, Wills John A. (Univ.) Switzerland		A.M. 1928, American University	
Fewell, Frederick George (Phar. 44)	D.C.	Fletcher, Charles Arthur (Jun. 21)	D.C.
Feyer, Henry Martin (Law III)	Conn.	Fletcher, Marion Shaw (Col. 96)	Tex.
Ch.E. 1929, Rensselaer Polytechnic Institute		Flowers, James Ralph (Univ.)	Wash.
Fick, John Ruth (Jun. 63)	D.C.	Flowers, Edgar Philip (Univ.)	
Fick, Marion Elizabeth (Col. 99)	D.C.	R.S. 1929, University of Washington	
Ficklin, Rudolph W. (Jun. 3)	Kans.	A.M. 1927, The George Washington University	
Ficklin, Lois Wilson (Jun. 7)	Va.	†Fletcher, Lillian Virginia (Ed. 48)	N.Y.
†Fidelson, Harrison Earl (Jun. 55)	D.C.	Flocks, Karl Wilhelm (Law II)	Pa.
†Fidson, Elizabeth (Univ.)	Pa.	B.Eng. 1927, Johns Hopkins University	Mo.
A.B. 1926, The George Washington University		Flocks, Milton (Jun. 2)	Ariz.
Fiedling, Lupa Parkes (Law I)	Va.	Flood, Clyde E. (Med. III)	Conn.
B.S. 1924, Randolph-Macon Woman's College		Flood, Lester C. (Univ.)	D.C.
Fiehrz, Frederick Jacob (Eng. 11)	D.C.	Flournoy, Howard Elmer (Jun. 44)	D.C.
Finn, Edward Allen (Jun. 38)	N.Y.	†Flora, Melbert G. (Univ.)	Cal.
†Finn, Ernest D. (Jun. 17)	Va.	Flournoy, Conley Washburn (Law I)	Cal.
Filley, Fecia Brant (Eng. 75)	D.C.	†Flournoy, Joseph Ashbury (Jun. 37)	Pa.
Filius, Maurice W. (Law II)	D.C.	Flood, Charles H. Bourke (Jun. 27)	N.Y.
A.B. 1924, Cornell University		†Flury, Henry (Grad.)	
†Fincher, Sarah Frances (Col., A.M.)	Mo.	A.B. 1912, University of Pennsylvania	
A.B. 1911, American University		A.M. 1912, The George Washington University	
Finckel, Elmer Keller (Law I)	D.C.	†Fly, Henry Allen (Jun. 2)	Mass.
A.B. 1921, The George Washington University		†Folger, Gertrude Elizabeth (Univ.)	N.Y.
†Findlay, Joseph Peter (Jun.)	D.C.	Folger, I. Leonard (Jun. 54)	Pa.
Fine, Irvin Jack (Med. III)	N.J.	Folsom, Greenbush Boxington (Col. 142)	Pa.
A.B. 1937, The George Washington University		Folsom, Greenbush Andra (Govt. 72)	N.Y.
†Fine, Raymond L. (Jun. 41)	Ohio	Ford, Ida (F.A. 116)	W.Va.
†Finkelstein, Norman (Jun. 24)	D.C.	Ford, Charles N. (Law II)	
†Finn, Dorothy Ruth (Univ.)	D.C.	A.B. 1920, Marshall College	D.C.
†Finon, Francis Ruth (Ed., A.M. 8)	D.C.	Ford, Edith Mabel (Ed. 204)	Pa.
A.B. 1922, The George Washington University		Ford, Marcel Jean (Jun. 17)	N.Y.
Finn, Marjorie Edith (Ed. 84)	D.C.	†Forness, Howard (Jun. 12)	Pa.
Firth, William Elsworth (Jun. 60)	Mo.	†Foster, Charles Fred (F.A. 119)	Pa.
Fischbach, Adolph David (Med. I)	N.Y.	Foster, Evelyn Deane (Ed. 119)	Pa.
A.B. 1921, Colby College		Foster, Marion Schaeffer (Med. IV)	Pa.
Fischer, Fred Paul (Eng. 79)	D.C.	B.S. 1928, Alabama Polytechnic Institute	
Fischer, Julius Matthäus (Col., A.M. 21)	Mo.	†Foster, Charles (Jun. 12)	D.C.
B.S. 1928, University of California		Fowler, Bruce Marsh (Jun. 78)	D.C.
Fischer, Paul Alan (Jun. 61)	Va.	Fowler, Gladys Marie (Jun. 28)	D.C.
Fish, Francesa G. (Jun. 18)	Iowa	Fowler, Greenville Lewis (Col. 21)	D.C.
Fishburn, Judith Marshall (Col. 89)	D.C.	Fowler, Harry Samuel (Univ.)	D.C.
Fisher, Herman Albert (Grad.)	Conn.	Fowler, Margaret Elizabeth (Jun. 25)	D.C.
A.B. 1925, A.M. 1931, University of Tennessee		Fowler, Marian Alberta (Jun. 8)	Pa.
†Fisher, Isaac Francis (Eng. 82)	D.C.	Fowler, Robert McSwain (Grad.)	
Fisher, Marian Louise (Jun. 12)	Ohio	A.B. 1927, St. Joseph's University	
Fisher, Wheeler Yale (Law I)	D.C.	A.M. 1931, The George Washington University	
A.B. 1911, American University		†Fowler, William Henry (Univ.)	N.Y.
Fisher, William Alfred (Law II)	D.C.	†Fox, Benjamin (Univ.)	
A.B. 1927, University of Maryland		R.S. 1929, College of the City of New York	
A.M. 1929, The George Washington University		Fox, Catherine Jeanette (Jun. 58)	D.C.
†Fitch, Uta Douglas (Univ.)	Va.	†Fox, Flyn Anna (Ther.)	N.Y.
B.S. 1924, Massachusetts Institute of Technology		Mus.B. 1927, Syracuse University	D.C.
†Fitzgerald, Robert H. (Univ.)	N.Dak.	Fox, Helen (Jun. 27)	
D.D.S. 1918, Marquette University		†Fox, Robert C. (A.M.)	
		A.B. 1911, The George Washington University	

# Students Registered

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Foxley, Edward George (Col., A.M. 3)	Utah	Fuchs, Victor Robert (Jun. 12)	Ga.
B.S. 1922, Utah State Agricultural College		Fugate, Elmer Wack (Med. IV)	D.C.
Francis, Floyd L. (Law II)	Nebr.	Fugate, Helen Jean (Col., A.M.)	D.C.
Francis, Dale (Eng. 48)	Nebr.	A.B. 1922, The George Washington University	
Francis, Elmer (Jun. 78)	D.C.	Fulbright, James William (Law II)	Ark.
Francis, Gertner Paul (Jun. 44)	Va.	A.B. 1923, University of Arkansas	
Francis, Harold L. (Med. Col. 88)	D.C.	A.M. 1924, Oxford University	
Frank, Estina Mae (Jun. 12)	Mass.	Fulton, Carrie Regent (Jun.)	D.C.
Fra K. Lucy (Jun. 14)	Md.	Fury, Frederick (Law II)	D.C.
Franklin, Ruth (Univ.)	Va.	A.B. 1923, Randolph-Macon Woman's College	
B.S. 1922, Harrisonburg State Teachers College		Funkhouser, John T. (Univ.)	Va.
Franklin, Martha Lou (Univ.)	D.C.	Furt, William H. (Jun. 17)	D.C.
Franklin, William Lincoln (Univ.)	Md.	Futfield, George Leban (Med. II)	D.C.
Frank, Walter Hail (Univ.)	D.C.	Futovsky, Samuel (Jun. 44)	D.C.
Frank, Martha (Jun. 18)	Okla.	Futterer, Sam Orrin (Jun. 60)	Md.
Franson, Fred Royce, Jr. (Jun.)	D.C.	Fyfe, Joseph Lee (Univ.)	Md.
Fraser, Andrew, Jr. (Univ.)	D.C.		
B.S. in Eng. 1924, St. Andrews University, Scotland		G	
Fraser, Ella Talbot (Jun. 61)	D.C.	Gabbert, Jesse Mayer (Jun. 41)	Miss.
Fraser, James Malcolm (Jun. 30)	Md.	Gabonians, Harry (Jun. 13)	D.C.
Fraser, Margaret Laura (Jun. 48)	D.C.	Gaber, Raymond Edgar (Col. 84)	Pa.
Fraser, Benjamin William (Univ.)	D.C.	L.B. 1924, The George Washington University	
A.B. 1927, University of Tennessee		Gabler, Margaret Irene (Jun.)	Nebr.
A.M. 1928, Columbia University		Gadsby, Mary (Univ.)	Mass.
Fraser, Lucy Patricia (Jun. 32)	Va.	Gaghen, George D. (Jun.)	Pa.
Fraser, Melvin S. (Law III)	N.Dak.	Gaghen, Daniel Harvey (Jun.)	Univ.
A.B. 1921, The George Washington University		Ga. (Univ.)	D.C.
Fraser, Vernon Allan (Law III)	N.Dak.	Ga. (Univ.)	D.C.
A.B. 1923, The George Washington University		Gallagher, Martin Patrick (Jun. 40)	Oreg.
Frederick, Anthony Theo. (Law I)	Idaho	Gallagher, Joseph Thomas (Jun. 33)	D.C.
Fre. Gerald Monroe (Univ. 88)	Calif.	Gallagher, Jack Armand (Med. I)	P.R.
Fre. Harold G. (Law I)	Iowa	B.S. 1921, A.M. 1922, The George Washington University	
B.S. in M.F. 1922, The George Washington University		Galloway, Arthur Edmund (Ed. 198)	Mo.
Fre. Lloyd Arthur (Law II)	D.C.	Galloway, Nellie B. (Ed. 26)	D.C.
B.S. 1922, Princeton University		Gammill, William Howard (Jun. 20)	Va.
Fre. Richard Henry (Eng. 39)	Iowa	Gardner, Don Martin (Univ.)	D.C.
Freeman, Arnold (Eng.)	Mass.	Gardner, Catherine (Ed., A.M. 26)	D.C.
Freeman, Cecil Louis (Law III)	D.C.	A.B. 1922, University of Nebraska	
A.B. 1927, F.E. 1927, Stanford University		Gardner, Dennis Franklin (Jun. 21)	N.C.
Frederick, Felix (Eng. 85)	D.C.	Gardner, Florence Eleanor (Univ.)	D.C.
Freeman, Andrew Foster (Eng. 20)	Iowa	A.B. 1924, A.M. 1924, The George Washington University	
Freeman, Norman Samuel (Univ.)	Nebr.	Gardner, Charles Frederick (Jun. 14)	Mass.
Frederick, Carl Joseph (Univ.)	Va.	Gardner, Rudolph (Eng. 16)	Mass.
B.M.F. 1922, Northwestern University	Mass.	Gardner, Edna (Univ.)	D.C.
Fre. John, John (Law I)	Conn.	Gardner, James Francis (Jun. 34)	D.C.
Ph.B. 1922, Yale University		Gardner, Herbert Elsie (Ed., A.M. 24)	D.C.
Freestander, Herbert Irwin (Jun. 31)	D.C.	A.B. 1925, The George Washington University	
Freeman, Abraham (Jun.)	D.C.	Garnett, Henry (A.A. 87)	D.C.
Freeman, Joseph Marshall (Jun.)	D.C.	Garnett, Walter Ray (Eng.)	D.C.
Freeman, Maurice (Law II)	Conn.	Garnett, Virginia Selma (Jun. 40)	Va.
A.B. 1921, The George Washington University		Gartland, Richard (Law Col. 10)	N.Y.
Freeman, Stephen Belle (Jun. 45)	D.C.	Gartman, James Adam (Law I)	Va.
Fre. Carl Perry (Univ.)	D.C.	Gartman, Elizabeth Frances (Jun. 20)	Md.
Fre. Barbara Hyacinth (Jun.)	D.C.	Gatz, Otto (Univ.)	D.C.
Fre. Kenneth Wallace (Ed. 60)	D.C.	Gatzert, Dorothy Gladys (Univ.)	D.C.
Fre. Margaret Ethel (Col. 100)	D.C.	Gates, Lester Madison (Col. 82)	Iowa
Fre. Fannie Ruth (Col. A.M.)	Ohio	Gates, Robert M. (Law III)	Iowa
A.B. 1922, The George Washington University	D.C.	Gaudin, Harvard Prescott, Jr. (Law II)	Md.
Fre. Lawrence Willet (Eng. 24)	Va.	Gaudin, Ernest August (Col. A.M. 2)	D.C.
Fre. David Heers (Jun.)	D.C.	A.B. 1922, The George Washington University	
Fre. Mary Louise (Univ.)	D.C.	Gaudin, Walter H. (Univ.)	D.C.
B.S. 1921, Ohio State University		B.S. 1922, A.M. 1924, University of Minnesota	
Fre. William Nell (Eng.)	D.C.	Gauthier, Eugene Aldrick (Eng. 5)	D.C.
Fre. Luella Elizabeth (Ed. 114)	W.Va.		



- †Gawler, Joseph Hager (Univ.) D.C.  
 Gay, John Richard (Jun. 75) D.C.  
 Gay, Karl Emmerich (Jun. 87) D.C.  
 Gay, Lendall Croxon (Jun. 69) D.C.  
 †Gaylord, Marion Ruth (Jun.) D.C.  
 Gaylord, Thomas Ackley (Law III) Mass.  
 Graduate 1912, U. S. Naval Academy  
 Gaylord, William Sibert (Jun.) D.C.  
 Geddes, Donald Brendel (Govt. 75) Ohio  
 Gedman, Herbert William (Jun. 27) Mass.  
 LL.B. 1922, The George Washington University  
 Ger, Stuart Conolly (Eng. 51) Va.  
 Geiger, Edward Burns (Jun., Uncl.) Md.  
 Geiger, Elizabeth McCoy (Ed. 78) D.C.  
 †Geiger, Henry Rice (Univ.) Pa.  
 Gesel, Edith (Col., A.M. 24) Pa.  
 A.B. 1929, The George Washington University  
 Geiser, Mary Beatrice (Col., A.M.) Ill.  
 A.B. 1933, The George Washington University  
 Gelbart, Gershon (Col. 97) D.C.  
 †Gellman, Paul (Jun.) D.C.  
 †Gellman, Elizabeth (Jun. 28) D.C.  
 Gelpi, William P. (Med. IV) D.C.  
 Gemeny, Alma Fliss (Jun. 12) D.C.  
 Genesee, Hazel M. (Univ.) D.C.  
 A.B. 1911, A.M. 1911, University of Michigan  
 †Genza, Albert John (Med. I) Conn.  
 Genza, Bonnet Joseph (Jun. 10) D.C.  
 †George, Douglas E. (Eng. 65) D.C.  
 George, Eleanor Sappho (Jun.) Md.  
 †George, James Henry (Jun. 15) D.C.  
 †George, Paul Eugene (Jun. 61) Ind.  
 Geraci, Alva Constance (Jun. 15) D.C.  
 Gerber, Aaron Harry (Med. III) D.C.  
 A.B. 1929, The George Washington University  
 †Gerber, Esther Edith (Jun.) D.C.  
 Gerber, Harold (Jun.) N.Y.  
 Gerber, Leon (Med. I) D.C.  
 †Gerber, Louis Germain (Jun. 52) Md.  
 †Geringer, Vincent Ray (Jun. 55) D.C.  
 Gerlach, Edgar Martin (Jun., Uncl.) Md.  
 †Gersand, Marcel Rachel (Univ.) D.C.  
 Gersten, Maurice R. (Jun. 32) Conn.  
 Gerth, Theo Philip (Uncl.) Munn.  
 Gertler, Louis (Law II) D.C.  
 Gessford, Margaret (Ed., A.M. 14) D.C.  
 A.B. 1926, The George Washington University  
 †Giesurtz, Frank Edward (Med. I) Conn.  
 A.B. 1932, The George Washington University  
 †Ghorndley, Dyer Daniel (Eng. 29) D.C.  
 †Gibson, E. Stuart (Jun. 15) D.C.  
 †Gibson, Frank Eugene (Jun.) D.C.  
 Gibson, Margaret Hackett (Univ.) D.C.  
 Gibson, Susan Stuart (Jun. 90) Va.  
 Giffen, Grace Elizabeth (Col. 68) D.C.  
 Gifford, Hortense F. (L.S. 92) D.C.  
 Gilbert, Rita Jeanette (Jun.) D.C.  
 Gillett, Mary Houghton (Jun. 12) Ind.  
 †Gillespie, Frank Smith (Law III) Ill.  
 Gilligan, Margaret Elizabeth (Col. 70) D.C.  
 Gillis, Leslie, Jr. (Law III) D.C.  
 A.B. 1922, Virginia Military Institute  
 Gilman, Jack (Jun. 21) D.C.  
 Ginsburg, Theodora H. (Jun. 33) D.C.  
 †Ginsburg, John (Law I) Iowa  
 Givens, Ralph, Jr. (Jun. 30) D.C.  
 †Glatfelter, Wilson Kenneth (Jun. 24) Pa.  
 Glasgow, Augustus Russell, jr. (Jun. 48) Md.  
 Glassman, Samuel (Med. I) N.Y.  
 †Glatigny, Elise E. (Jun. 19) G.  
 Glaubach, Nathan (Med. II) D.C.  
 A.B. 1932, The George Washington University  
 †Glazer, Benny (Jun. 11) Md.  
 Gleason, Marshall Cedric (Univ.) D.C.  
 Glemser, Harry W. F. (Law II) N.Y.  
 M.E. 1920, Drexel Institute  
 Glover, Thomas (Jun. 91) D.C.  
 Goda, Rena (Jun. 64) D.C.  
 †Goddard, Jennie Clayton (Col. 107) S.C.  
 †Godfrey, Howard Linwood (Law., Uncl.) D.C.  
 B.S. 1918, University of Pennsylvania  
 LL.B. 1927, Temple University  
 †Goebel, Violet Dorothy (Jun.) D.C.  
 Goetz, Charles Moran (Law III) W.  
 †Goetz, Delia (Univ.) D.C.  
 †Goetz, Samuel (Jun. 6) Md.  
 †Gohsen, Mildred C. (Jun.) N.Y.  
 Goldberg, George I. (Med. III) N.Y.  
 A.B. 1911, The George Washington University  
 Goldberg, Herman (Jun. 81) D.C.  
 Goldberg, Isadore (Jun.) D.C.  
 †Goldberg, Martin (Law I) D.C.  
 A.B. 1932, University of Delaware  
 Goldberg, Samuel A. (Jun.) N.Y.  
 Goldberger, Benjamin H. (Govt. 94) D.C.  
 Goldberger, Joseph Herman (Med. II) D.C.  
 A.B. 1932, The George Washington University  
 Golden, Gene Edward (Eng., Uncl.) D.C.  
 Goldensohn, Leon Nathaniel (Med. II) N.Y.  
 A.B. 1932, Ohio State University  
 Goldman, Benjamin (Phar. 74) D.C.  
 A.B. 1920, The George Washington University  
 †Goldman, Maurice (Jun.) D.C.  
 Goldman, Nathan (Jun.) D.C.  
 Goldsmith, Anne Stolar (F.A. 105) D.C.  
 Goldstein, Max (Jun. 200) D.C.  
 Gonzalez, William Alexander (Jun. 31) D.C.  
 Graduate in Ch. 1905, Cooper Union Institute  
 Gooch, Donald Willis (Col., A.M.) D.C.  
 A.B. 1911, The George Washington University  
 Gooch, Wilbur Wyley (Jun.) D.C.  
 †Good, Newell E. (Grad.) D.C.  
 A.B. 1927, Heidelberg College  
 M.S. 1929, The George Washington University  
 Goodall, Alfred Burrows (Col. 144) Iowa  
 Goode, Donald J. (Law III) D.C.  
 Goodman, David Abraham (Jun. 32) Md.  
 †Goodman, Milton J. (Univ.) D.C.  
 B.Arch.E. 1931, University of Detroit  
 Goodrich, Vernon Lee (F.A. 51) D.C.  
 Goodrich, Mazie Viola (Col. 99) Mo.  
 Goodson, Eleanor Hoffman (Col., A.M.) D.C.  
 A.B. 1932, University of Missouri  
 Gooz, Arthur Selig (F.A. 68) D.C.  
 Gordon, Armand Byron (Jun. 39) D.C.  
 Gordon, Bertha (Col. 80) Miss.  
 Gordon, Charles Lewis (Jun. 57) D.C.  
 †Gordon, Everett Julius (Col. 86) D.C.  
 Gordon, Hyman Herbert (Jun.) D.C.  
 Gordon, Jennie (Jun. 71) N.Mex.  
 Gore, Harold Olen (Law I) D.C.  
 Gore, Philip Larner (Law II) Va.  
 †Gorman, Edward Aloysius (Eng.) Iowa  
 Gormley, Eva May (Col. 103)

# Students Registered

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Gormley, Mary (Univ.)	D.C.	Greenberg, Samuel Irving (Med. II)	N.Y.
Gosnell, Arthur Lewis (Eng. 9)	Md.	A.B. 1922, The George Washington University	
Gosnell, Leo Patricia (Univ.)	Ark.	Greene, Jesse M. (Univ., Uncl.)	D.C.
B.S. in Ed. 1928, University of Arkansas		Greene, Michael H. (Col., A.M.)	D.C.
A.M. 1931, The George Washington University		A.B. 1922, The George Washington University	
Gosssett, Eleanor Johnson (Ed. 52)	D.C.	Greene, Nora Eugenia (Univ.)	S.C.
Gottlieb, Irvin Malvern (Univ.)	D.C.	Gimne, Orville N. (Law III)	D.C.
B.F.S. 1922, Georgetown University		A.B. 1922, Lehigh University	
Gottlieb, Joseph (Jun. 23)	D.C.	Greenhow, Elizabeth Catherine (Col. 61)	D.C.
Gottlieb, Sidney William (Jun. 2)	D.C.	Greenwald, Kathleen Marie (Univ.)	D.C.
Gough, Gaines Homer (Jun. 64)	Md.	Greenwood, Joseph Richard (Law III)	Ind.
Goupee, Edward John (Col. 198)	D.C.	B.S. 1922, Indiana University	
Gould, Stephen Philip (Univ.)	Me.	Gregory, Mary Alexander (Ed., A.M.)	Md.
B.S. 1919, Bates College		Ph.B. 1922, Berkeley College	
A.M. 1928, Columbia University		Gregory, Virginia Kendall (Col. 64)	D.C.
Gowette, Louis Francis (Col. 62)	Mass.	Gibb, Douglas (Jun. 42)	N.J.
Grall, Wilson Henry (Univ.)	Wis.	Gibbs, Graydon McCoy (Law I)	Ark.
Grad, Raymond (Jun. 60)	N.Y.	Gibbs, Lyle Smith (Jun. 41)	Utah
Gradiolph, William Frank, Jr. (Law I)	Ohio	Gibbs, Arthur Walter (Law I)	D.C.
Grady, Florence Elizabeth (Jun. 1)	D.C.	B.S. 1927, Virginia Military Institute	
Graff, George Umbarger (Col., A.M. 18)	D.C.	Gibbs, Calvin (Jun. 1)	D.C.
B.S. 1928, The George Washington University		Gibbs, Frederick Dickerson (Ed. 68)	D.C.
Graff, Shirley Leigh (Col. 94)	D.C.	Gibbs, Kelley Edward (Eng. 20)	Va.
Graham, Allen Casswell (Law I)	Md.	Gibbs, Noel (Jun. 42)	D.C.
Graham, Billy Brown (Law I)	Va.	Gibbs, Terry DeWitt (Law I)	Va.
Grant, Edward Barney (Jun. 1)	Neb.	Gibson, Fela Lester (Jun. 53)	D.C.
Gravatt, Anne Kathleen (Univ.)	Md.	Gicks, Albert B. (Law II)	Colo.
A.B. 1916, M.S. 1918, Brown University		Giles, James A. (Med. II)	Conn.
Gravatt, George Flippo (Grad.)	Md.	B.S. 1921, Franklin and Marshall College	
B.S. 1917, M.S. 1922, Virginia Polytechnic Institute		Grimes, Foster Marion (Eng. 22)	D.C.
Gravatte, Florence R. (Ed., A.M.)	D.C.	Grimminger, George (Col., A.M. 18)	Mo.
A.B. 1922, The George Washington University		A.B. 1921, The George Washington University	
Graves, James Miller (Law III)	D.C.	Grimsell, Frank Albert (Law III)	Utah
B.S. 1927, A.M. 1928, Harvard University		Grissell, Mary Eleanor (Col. 117)	Mass.
Gray, Dorothy (Col., A.M.)	D.C.	Grissell, Irving (Jun., Uncl.)	N.Y.
A.B. 1926, The George Washington University		Grissman, Elmore (Jun. 31)	Md.
Gray, Gertrude Welch (L.S. 64)	Mo.	Grisnet, Maurice T. (Med. III)	N.Y.
Gray, John (Univ.)	N.J.	A.B. 1921, The George Washington University	
A.B. 1917, Stanford University		Gronvald, Ingvald Solvæg (Jun. 87)	Minn.
M.S. 1920, University of Wisconsin		Group, Mildred Hutchinson (Grad.)	Mass.
Ph.D. 1920, Cornell University		A.B. 1915, Smith College	
Gray, Lou Cecilia (Col. 72)	Md.	Ed. M. 1918, Harvard University	
Gray, Ralph (Jun. 2)	Mo.	Gross, Alfred Gregory (Eng. 141)	D.C.
Gray, Robert Meade (Law III)	D.C.	Gross, Isadore (Med. IV)	N.Y.
A.B. 1920, The George Washington University		A.B. 1920, The George Washington University	
Gray, Seely Nash (Med. IV)	Wis.	Grossman, Pauline (Col. 78, Law III)	Ark.
A.B. 1929, American University		Grasvonne, John Edward (Ed. 102)	D.C.
Gray, Walter Thomas (Law II)	Mont.	Grave, Gertrude Steaver (Jun. 1)	Va.
Green, Alice Elizabeth (Jun. 10)	Md.	Grasherman, Edward Isidor (Med. III)	Calif.
Green, Charles Livingston (Law I)	Utah	Ginsbo, El. (Jun. 54)	N.Y.
Green, Dorothy Jane (Jun. 1)	D.C.	Gisner, Raymond Richard (Law I)	N.Y.
Green, Elsie Eugenia (Univ.)	D.C.	A.B. 1921, Yale University	
A.B. 1914, A.M. 1928, The George Washington University		Guitant, Charles Carlton (Grad.)	Va.
Green, Mildred (Ed., A.M. 17)	D.C.	A.B. 1921, A.M. 1922, The George Washington University	
A.B. 1922, The George Washington University		Guth, Mary Jane (Jun. 1)	Md.
Green, Thomas Lamar (Law I)	Miss.	Gunn, Gladys Elizabeth (Ed. 68)	Va.
A.B. 1921, Mississippi College		Gulbreth, Amelia Bevel (Ed., A.M.)	W.Va.
Greenwald, Guy A. (Law III)	Ill.	A.B. 1922, West Virginia University	
B.S. 1928, Carnegie Institute of Technology		Gulick, Joseph I. (Col., A.M.)	D.C.
Greenberg, Adolph Sauber (Jun. 1)	D.C.	A.B. 1917, Lafayette College	
Greenberg, Arthur Harold (Univ., Uncl.)	D.C.	B.D. 1927, Princeton University	
Greenberg, Milton M. (Med. IV)	D.C.	Gulick, Mary Smith (Law III)	Va.
		A.B. 1922, Randolph-Macon Woman's College	
		Gunnell, Virginia (Col. 94)	D.C.
		Gunnison, John Bowman (Jun. 30)	D.C.
		Gunnison, Royal Arch (Col. 100)	Wash.

Gutewitz, Clarence Darrow (Jun. 32)	D.C.	Halstead, Clark Paul (Col. 105)	Mo.
*Gurley, Marie (Ed., A.M. 30)	Mo.	Hamblin, Lawson Orlo (Univ. 1)	Ark.
A.B. 1921, B.S. 1924, University of Missouri		Hamby, Louis Laval, jr. (Jun. 18)	D.C.
Gurley, Revere Babcock (Col. 70)	Md.	Hamill, Harold Louis (Jun. 28)	D.C.
Gusack, Adele (Jun. 32)	D.C.	Hamill, John Stafford (Eng. 24)	Ind.
Gustavson, Z. Selma Marie (Jun. 1)	N.Y.	†Hamilton, Claire Wilson (Jun. 1)	D.C.
Justin, James William (Med. II)	Mich.	Hamilton, Donald Menzies (Eng. 74)	D.C.
A.B. 1921, Alma College		Hamilton, Edythe Anna (Jun. 17)	D.C.
Guthrie, Ross Ritter (Law II)	Md.	†Hamilton, Miles Hoadley (Univ. 1)	D.C.
A.B. 1928, Harvard University		Hamlin, Frances Seymour (Jun. 1)	D.C.
†Guyon, Charles M. (Univ.)	D.C.	Hamlin, George Rathbone, jr. (Eng. 6)	D.C.
		Hamonat, Ralph (Law III)	D.C.
H		B.S. 1929, M.S. 1927, Massachusetts Institute of Technology	
Haag, Harry Kershner (Jun.)	Pa.	Hammeress, Clarence Rudolph (Law II)	Mass.
Hackworth, Earl Christy (Jun. 27)	D.C.	Hammit, Caroline Ashby (Jun. 18)	D.C.
Haddow, Anna (Grad., Ph.D.)	Md.	Hammond, John Clarke (Col., A.M. 8)	R.I.
A.B. 1926, A.M. 1927, Pennsylvania State College		B.S. 1921, Rhode Island State College	China
B.S. in L.S. 1928, Drexel Institute		Han, Shou-Hwan (Univ.)	
Haddox, Horace Bolivar (Jun. 85)	Md.	A.B. 1930, National University of Peking	D.C.
Hadley, Harold D. (Law II)	Iowa	Hanback, William Brecht (Law II)	
Hadnott, John R. (Univ.)	N.C.	A.B. 1922, The George Washington University	Ill.
†Hagan, Erville H. (Jun.)	Mo.	Hancock, John Pannill (Univ.)	D.C.
Hagan, Margaret Wood (Univ.)	Va.	Hand, Elsworth Joseph (Eng. 111)	D.C.
A.B. 1910, Salem College		Hand, Frances Rebecca (Jun. 32)	D.C.
Hagarty, Annie Lois (Univ.)	Va.	†Hand, Frances Woolverton (Col., A.M.)	D.C.
Hagen, Adolph William (Jun. 27)	Minn.	A.B. 1922, The George Washington University	Colo.
Hagenbuch, John Robert (Jun. 22)	Pa.	Hand, Frank Bailey (Jun. 32)	D.C.
Hahner, Clarence (Col., A.M. 12)	Wash.	Hand, John Philip, jr. (Med. I)	Del.
B.S. 1929, State College of Washington		A.B. 1922, Ohio Wesleyan University	
Haile, Myra Bell (Ed. 80)	D.C.	†Haidt, Emanuel (Law I)	Del.
Hain, John Adams (Eng. 16)	D.C.	A.B. 1922, University of Delaware	
Haines, Hilton Drummond (Med. III)	D.C.	Handshill, Herman (Law I)	D.C.
Hais, Harry Irving (Jun.)	D.C.	A.B. 1922, University of Delaware	D.C.
Hais, Sidney (Jun. 0)	D.C.	Handy, Elie Bruce (Ed. 100)	Va.
Haider, Robert Winter (Eng. 11)	N.Y.	Hanks, Grayson Bland (Eng. 63)	D.C.
Haie, Frank Connell (Law III)	Tex.	Hanks, Robert Barrow (Jun.)	Mont.
Hale, Marion Mathias (Ed., Uncl.)	Tex.	Hanks, Clementine (Jun. 18)	W.Va.
Hale, Mary Janice (Jun.)	D.C.	Hanks, Donald B. (Jun., Uncl.)	Conn.
Haley, Grace Wright (Jun. 96)	D.C.	†Hansley, Joseph Daniel (Univ.)	D.C.
Haley, James William (Jun. 51)	D.C.	Hansrah, Paul Francis (Law III)	
Haley, Mary Brooks (Jun. 14)	D.C.	B.S. 1927, Dartmouth College	D.C.
Hall, Clyde Cheshbrough (Col., A.M. 6)	Mass.	Hannan, Loreeta (Ed., A.M.)	
A.B. 1926, Dartmouth College		A.B. 1922, The George Washington University	D.C.
†Hall, Edward Currie (Jun. 60)	D.C.	Hamowell, Charles Louis (Jun. 15)	N.I.
Hall, Grace Claughton (Ed. 07)	D.C.	†Hansen, Arnold Klement (Eng.)	Ind.
Hall, Helen Beryl (Col., A.M.)	D.C.	Hansen, Howard (Med. III)	Kent.
A.B. 1912, The George Washington University		Hansen, Clara Amelia (Jun. 21)	N.Dak.
Hall, Jewell (Univ.)		Hanson, Hanna O. (Univ.)	D.C.
Hall, Margaret (Law I)	Mass.	†Hanson, Hannah Jane (Jun. 33)	Mo.
A.B. 1928, Wellesley College		Harbaugh, Eva Luella (Ed., A.M. 12)	
†Hall, Margarite Elizabeth (Univ.)	D.C.	A.B. 1931, The George Washington University	Me.
Hall, Mary Belle (Univ.)	D.C.	Harding, Dorothy Virginia (Jun.)	Wash.
Hall, Nance Stephenson (Jun. 6)	D.C.	Hardy, Bearrice Elizabeth (Jun.)	Utah
†Hall, Percival, jr. (Col., A.M. 18)	D.C.	Hardy, Glen F. (Law II)	D.C.
B.S. 1922, Haverford College		A.B. 1925, University of Utah	D.C.
B.S. in E.E. 1924, Harvard University		Hardy, Margaret Ruth (Col. 87)	Va.
Hall, Robert Edward Lee (Law II)	D.C.	†Harkness, William Dalzell (Eng. 30)	D.C.
A.B. 1922, The George Washington University		Harlan, Ashlan Fleetwood, jr. (Law III)	
Hall, Thomas Randolph (Col. 102)	D.C.	A.B. 1920, The George Washington University	D.C.
†Hall, William Duffell (Law I)	D.C.	Harlan, Frances McNeer (Col., A.M.)	
B.S. 1921, Carnegie Institute of Technology		A.B. 1922, The George Washington University	D.C.
Hall, William Jarvis (Med. I)	Idaho	Harlan, Helen Garrett (Jun. 15)	D.C.
B.S. 1932, University of Idaho		Harlan, Wilbur Vaughn (Jun. 34)	
Hallam, Henry Charles, jr. (Jun. 21)	D.C.		
Haller, Herbert Weaver (Eng. 112)	Va.		
†Hallett, Harley James, jr. (Col., A.M.)	Va.		
A.B. 1921, Ouachita College			
Hallman, Paul Woodrow (Jun. 32)	Va.		



# Students Registered

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Hartman, Myra Hulst (Univ.) A.B. 1911, Vassar College C.P.H. 1912, Yale University	D.C.	Haskin, Frederic Jennings (Jun. 21) Haskin, Alice Dima (Ed., A.M. 24) A.B. 1911, The George Washington University	D.C. D.C.
Hartman, Richard James (Jun.) Hartman, William Henry (Eng. 64) Hazard, Edward Olin (Ed., A.M. 13) Ph.B. 1908, Syracuse University	Ind. Minn. D.C.	Haskin, Lemuel Allen (Law II) B.S. 1907, University of Maryland	Md.
Hartman, Philip Komp (Law I) Hartner, Helen Virginia (Ed., A.M. 6) A.B. 1908, The George Washington University	W.Va. D.C.	Hass, Walter Henry (Gen. A.M.) A.B. 1907, The George Washington University	Iowa
Hartner, Helen W. (Col., A.M.) A.B. 1911, University of Kansas	D.C.	Hastings, Marna (Univ.) A.B. 1917, The George Washington University	Md.
Hartner, Howard Edward (Med. III) A.B. 1908, Oberlin College	D.C.	Hastings, Ralph Stanton (Univ.) B.B.A. 1910, Boston University	D.C.
Hartner, Lariat Howell (Med. I) Hartner, Robert Hutchinson (Jun., Und.) Hartner, Robert Paul (Jun. 44) Hartnell, Jerome Blaine (Med. I) Hartell, Martha Jane (Jun.) Hartell, Delbert L. (Jun. 48) Hartington, Cecile Bernice (Univ.) A.B. 1910, The George Washington University	Mont. Ga. Pa. D.C. D.C. N.C. D.C.	Hatch, Douglas Emerson (Col. 85) J.L.B. 1912, The George Washington University Hatch, Lawrence G. (Jun. 47) Hatch, Dan. Vard. (Med. I) Hatch, Isaac Mae (Univ.) Hatch, Ralph Freeman (Col. 97) Hatch, Robert Barron (Med. II) B.S. 1911, University of Maryland	Nev. W.Va. Va. Kan. D.C.
Hartington, Francis Daniel (Eng.) B.M. 1912, The Catholic University of America	D.C.	Havens, Nancy S. (Law I) A.B. 1910, Roberts University	N.J.
Harris, Alfred Livingston (Univ.) Harris, Bertha E. (Ed. 53) Harris, Ernest Mason, Jr. (Law I) A.B. 1911, Wake Forest College	D.C. Md. S.C.	Havens, Harold Kenneth (Law I) C.E. 1910, Polytechnic Institute of Brooklyn	N.J.
Harris, Louis Barney (Univ.) Harris, John Law (Law II) Harris, Rhoel Gibbs (Univ.) Harris, Robert Barnoway (Col. 95) Harrison, Thomas Hilliard (Jun. 57) Harrison, Anne Lou (Jun. 81) Harrison, Barbara Jean (Jun. 33) Harrison, Bertram M. (Univ.) A.B. 1910, Yale University	D.C. Va. Pa. Utah Mia. Va. D.C. D.C.	Hawes, Helen May (Univ.) Hawes, Harold Paulson (P.A. 54) Hawes, Helen Humbert, Col. A.M. 31 A.B. 1910, Transylvania University	D.C. D.C. Ky.
Harrison, Charles Harvey (Law I) Harrison, John Ward (Eng. 64) Harrison, Louis Francis (Col. 73) Harrison, Marietta Barber (Jun. 75) Harrison, Marjorie Belle (Jun. 16) Harrison, Sally Frances (Jun. 38) Harrison, William Hades (Univ.) Harrison, William Wirt, Jr. (Law I) Hart, George Alexis, Med. IV A.B. 1910, University of Pennsylvania	Conn. Conn. Mass. D.C. N.C. Va. Ark. S.C. Del.	Hawkins, Norman Douglas (III) Eng. 1909 Hawkins, Virginia Frestlin (I.S. 64) Hawley, George Walter (Jun. 12) Hawthorne, S. Elizabeth (Univ.) Hay, F. John Perry (Jun. 10) Hay, Malcolm (Jun. 44) Haycock, Berardine Janney (Ed., A.M. 11) A.B. 1912, The George Washington University	D.C. D.C. Va. Va. N.Y. D.C.
Hart, Louis Rivers (Col. 70) Hart, Virgil Conley (Med. II) A.B. 1911, Oberlin College Hart, William James (Col., A.M. 8) A.B. 1912, The George Washington University	Va. Ohio D.C.	Haycock, David LeGrande (Eng. 54) Hawkins, Ernest Stamp (Jun. 54) Haynes, John Mary (Col., A.M. 27) A.B. 1912, The George Washington University	D.C. D.C. Va.
Hartley, Charles Edward (Ed., A.M. 21) A.B. in Ed. 1910, University of Florida	Fla.	HAYON, Vernon Ralph (Jun.) HAYON, Gilbert Leslie (Jun. 58) HAYON, Harry James (Jun. 32) HAYON, Mary Frances (Jun. 12, 56)	D.C. D.C. D.C. N.C.
Hartman, Clarence Richard (Med. I) Hartman, Howard Carl (Jun.) A.B. 1910, D. Anson College	Va. D.C. Pa.	HAYON, A. Lester (Ed. 77) HAYWARD, Lila Hope (Univ.) Hazard, Frederick Stuart (V.V.) Hazard, John Henry (Jun. 11) Hazard, Willis Blackford (Univ.) A.B. 1914, Macomber College	D.U. Md. D.C. D.C. D.C.
Hartman, John Adams, Jr. (Law I) Hartman, Gladys Mae (Jun. 6) Hartman, Nana Marie (Univ.) Hartman, Robert Margaret (Ed. 50) Hartman, Robert Brown (Ed. 51) Hartman, Robert Edward (Jun. 157) Hartman, Francis Luford (Jun., Und.) Hartman, John Francis (I.S. 88) Hartman, Walter Sheldon (Eng. 26) Hartman, Frank Ross, Jr. (Col., A.M.) B.S. 1912, The George Washington University	Iowa Ill. D.C. Md. D.C. D.C. Va. D.C. D.C.	HAYON, Robert Thomas (Univ.) HAYON, Elizabeth Jane (Jun.) HAYON, Arthur (Ed. 77) HAYON, Ernest Alfred (Jun. 48) HAYON, Gertrude Elizabeth (Col., A.M. 30) A.B. 1912, The George Washington University	Conn. D.C. D.C. D.C.
Hartman, Joseph J. N. (Jun. 30)	D.C.	Hearse, Thomas Myers (Univ.) B.S. 1910, Boston University	Mass.
		Heber, G. Maxine (Jun. 14) Heckman, Emma Elizabeth (Jun.) Hedges, Frances (Gen. 54) Hedrick, Oppie Lee (Univ., Law I) Hedrick, Thomas H. (Univ.) Hedrick, Dorothy Margaret (Gen. 31)	Neb. D.C. D.C. W.Va. D.C. D.C.



# Students Registered

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Hines, Cecilius Calvert, jr. (Univ.)	D.C.	Holt, William Luke (Jun. 80)	D.C.
Hines, Ida Wright (Univ.)	D.C.	Holtman, Bernice Graves (Jun.)	Md.
Hines, John Preston (Univ.)	D.C.	Holmes, Saul (Jun. 30)	D.C.
Hior, Vincent Harold (Med. II)	Utah	Holzman, Eunice Myrtle (Jun.)	Mass.
Hipp, Norbert John (Col. 93)	Minn.	Holzer, David (Grad.)	Utah
Hirsch, Frank William (Jun., Uncl.)	Ila.	B.S. 1931, M.S. 1932, Utah State Agricultural College	
Hirsch, Bennett Marcus (Law III)	Fla.	Honevort, Margaret (Jun. 10)	D.C.
B.S. 1928, University of Pennsylvania		Hood, James Edward (Univ.)	Va.
M.S. 1930, Georgetown University		Hood, Robert Hester (Eng. 18)	N.C.
Hirst, Omar Lee (Jun. 12)	Va.	Hood, William L. (Law III)	D.C.
Haley, Frances Elizabeth (Jun.)	D.C.	Hoover, Sam R. (Cal., A.M. 24)	W.Va.
Hall, Robert A. (Law II)	D.C.	B.S. 1929, Davis and Elkins College	
B.S. in C.E. 1929, University of Maryland		Hoover, William Marshall, jr. (Med. II)	D.C.
Hatchcock, Vernon (Jun. 6)	D.C.	A.B. 1932, The George Washington University	
Hitt, Beryl (Jun. 48)	Kans.	Hope, Ben Walter (Col. 91)	Idaho
Hib, Chie Shing (Grad.)	China	Hopkins, Irene (Col., A.M.)	D.C.
A.B. 1927, Shun Yuan University		A.B. 1922, Connecticut College	
A.M. 1932, The George Washington University		Hopkins, William Isaac (Jun. 48)	Kans.
Hobart, Harold McComb (Med. I)	D.C.	Hoppe, Carolyn Louise (Law I)	Iowa
B.S. 1929, Alma College		A.B. 1925, Coe College	
Hobbs, Helen Maryanne (Univ.)	Md.	Hoppmann, Gladys Alma S. (Jun. 78)	Nebr.
Hobbs, Robert Boyd (Col. 69)	D.C.	Hopwood, Kate Elizabeth Locke (Jun.)	D.C.
Hobbs, Helen Harber (Col. 90)	Ill.	Hornbrook, Frank Wendler, jr. (Eng. 32)	Me.
Hobson, Barbara Evelyn (Jun. 38)	R.I.	Horne, Ida Barlow (Col. 74)	N.J.
Hobson, Henrietta Lelia (Jun. 69)	D.C.	Hosowitz, Abigail (Jun. 1)	D.C.
Hobson, Katherine Gaskill (Jun. 33)	D.C.	Hosowitz, Samuel (Med. II)	N.Y.
Hockett, Margaret Dixon (Col. 111)	Va.	Horr, George Dean (Grad.)	Mass.
Hockley, Herbert Alfred (Law I)	D.C.	B.S. 1926, Wesleyan University	
A.B. 1927, Juniata College		M.B.A. 1928, Harvard University	
Hodges, Gertrude Isabel (Jun.)	D.C.	Hosnell, Gordon Henry (Eng. 10)	D.C.
Hodge, Robert Miles (Jun., Uncl.)	Md.	Horton, Frances Myron (Law I)	Va.
Hodskins, George Wilson (Grad.)	D.C.	Horton, Mabel Paul (Col. 81)	Va.
A.B. 1915, A.M. 1916, T.D. 1916, The George Washington University		Houston, Virginia Clara (Col., A.M.)	D.C.
Hodkins, Helen Marie (Jun. 29)	Ill.	A.B. 1912, The George Washington University	
Hodson, Robert Edward (Jun. 72)	Mich.	Hosfield, Raymond Frederick (Law II)	D.C.
Hoebeckx, Omer S. (Jun. 42)	Wis.	B.S. in E.E. 1910, The George Washington University	
Hoffeins, Francis Mervin (Eng. 195)	D.C.	Houchins, Eugene Henry (Univ.)	Tex.
Hoffman, Beatrice Lois (Jun. 33)	D.C.	Houghton, Harry Beaumont (Law I)	D.C.
Hoffman, Carl Oscar (Eng. 52)	D.C.	B.S. 1923, University of Vermont	
Hoffman, Eleanor Myrtle (Univ.)	Md.	Houston, David F. (Univ.)	Minn.
A.B. 1931, Wilson College		A.B. 1928, Carleton College	
A.M. 1933, University of Pennsylvania		M.S. 1933, The George Washington University	
Hoffmann, John M., jr. (Law II)	Calif.	Houston, Patricia T. (Law III)	Tenn.
B.Eng. 1926, University of California		A.B. 1910, Lincoln Memorial University	
Hogan, Eugene Pendleton (Univ.)	Va.	Howard, F. Inez (Law I)	Kans.
B.S. 1920, Roanoke College		A.B. 1908, The George Washington University	
Hogentogler, Chester Albert (Jun. 22)	D.C.	Howard, Ina Ray (Jun.)	D.C.
Hogan, Marione Cora (Univ.)	Ill.	Howard, Marion Hux (Jun.)	D.C.
Hosumbe, Burton (Jun. 9)	D.C.	Howard, Nan (F.A. Uncl.)	D.C.
Hosumbe, Priscilla (Col. 61)	D.C.	A.B. 1925, Randolph-Macon Woman's College	
Hosumbe, Henry Bruce (Jun. 24)	Calif.	Howard, Ralph C. (Univ.)	Miss.
Hosumbe, Grace Antoinette (Jun. 3)	D.C.	B.S. 1918, University of Mississippi	
Hosumbe, Julius Jay (Jun.)	N.Y.	A.M. 1933, The George Washington University	
Hosumbe, Richard (Col. 71)	D.C.	Howard, William J. P. (Med. I)	D.C.
Hosumbe, Lindway Lee (Law III)	Tex.	B.S. 1912, The George Washington University	
Hosumbe, J. William (Eng.)	D.C.	Howe, Henry Herbert (Grad.)	Nebr.
Hosumbe, Chester Winfield (Ed., Ed.D.)	D.C.	A.B. 1928, A.M. 1931, University of Nebraska	
B.S. 1916, Ed.M. 1924, Harvard University		Howe, William Ernest (Jun. 12)	D.C.
Holmes, Franklin Austin (Law II)	Tex.	Howell, Andrew (Jun. 64)	D.C.
A.B. 1930, The George Washington University		Howell, Jim McCorkle (Jun. 55)	Okla.
Holmes, Louis A. (Law III)	Nebr.	Howenstein, Ralph (Univ.)	D.C.
A.B. 1928, University of Nebraska		Howser, George F. (Eng. 53)	Md.
Holmes, Thomas James, II (Grad.)	Md.	Hoyle, Ray A. (Univ.)	Calif.
B.S. 1924, University of Maryland			
M.S. 1930, The George Washington University			
Holober, Dorothy Adele (Univ.)	D.C.		
Holt, Lella Mary (L.S., Uncl.)	Pa.		
A.B. 1915, Wilson College			



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# Students Registered

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Jackson, Virginia Schafer (Ed. 1903)	D.C.	Johnson, Lida Anne (Univ.)	N.H.
Jacobi, George Kang (Eng. 12)	Md.	Johnson, Livingston Leon (Law I)	D.C.
Jacobi, John Russell (Col. 94)	Va.	B.S. in C.E. 1931, The George Washington University	
Jacobi, Lawrence Eugene (Jun.)	D.C.	Johnson, Paul Evan (Govt. 26)	Wis.
Jacobi, Mary Elizabeth (Col. 92)	D.C.	Johnson, Paul George (Law I)	Wis.
Jacobi, William (Med. II)	N.J.	Johnson, Samuel Smart (Eng. 15)	D.C.
A.B. 1926, Rutgers University		Johnson, Selmer Leroy (Jun. 37)	Wis.
Jacobson, Paul Dwyer (Jun. 24)	D.C.	Johnson, Thomas G. (Univ.)	Ore.
Jacobson, I. Daniel (Eng. Uncl.)	Mass.	Ph.D. 1912, Washington State College	
James, Hilda Simpson (Jun. 23)	D.C.	Johnson, Vernon Webster (Law I)	Ill.
James, Irene Dwyer (E.A. 1926)	D.C.	Ph.D. 1911, University of Wisconsin	
James, Louise K. (Ed. 118)	Md.	Johnson, William Meyer (Law I)	D.C.
James, Louis Henry (Jun. 71)	Ind.	Johnson, William Roy (Law II)	D.C.
James, Joseph Tyson (Univ.)	Va.	B.C.S. 1924, New York University	
James, Eugene F. (Col., A.M.)	Minn.	Johnson, Albert Caldwell (Law II)	Va.
A.B. 1922, The George Washington University		A.B. 1922, The George Washington University	
Jaman, Bunnee Herman (Ed., E.D.)	D.C.	Johnson, Richard Lester (Law I)	Md.
B.S. 1928, State Teachers College, West Chester, Pa.		B.S. 1922, Johns Hopkins University	
A.M. 1932, The George Washington University		Johnson, William Dean (Grad.)	D.C.
Jarrett, Paul Sylvester (Jun.)	Mo.	B.S. 1911, University of Chicago	
Jarvis, George Young (Jun. 75)	Calif.	Jones, Fredrick Henry (Col. 72)	N.Y.
Jarvis, Clara Belle (Jun. 28)	Ill.	Jones, Alberta Irene (Univ.)	Va.
Jelley, Robert Lagow (Law III)	W.Va.	Jones, Arthur Lee (Univ.)	D.C.
A.B. 1931, The George Washington University		Jones, Carlsson Champ (Jun.)	Va.
Jenkins, Clyde Hainé (Jun. 10)	D.C.	Jones, Chase Bruce (Col., A.M.)	Md.
Jenkins, David (Univ.)	D.C.	A.B. 1922, Kansas College	
Jenkins, Elizabeth Eleanor (Ed. 72)	D.C.	Jones, Chester Harris (Jun. 33)	D.C.
Jenkins, Fensia (Univ.)	Ill.	Jones, Donald K. (Eng. 31)	D.C.
B.S. 1931, University of Maryland		Jones, Dorothy Marie (Jun.)	D.C.
A.M. 1932, Mills College		Jones, Frances Virginia (Jun.)	D.C.
Jennings, Dorothy Lestella (Univ.)	D.C.	Jones, Helen Gertrude (Col., A.M.)	S.Dak.
Jennings, Harry Edmund (Law I)	Md.	A.B. 1922, University of South Dakota	
Ph.D. 1932, University of Wisconsin		Jones, Helen Hall (Col. 74)	D.C.
Jennings, Nancy Annlin (Jun.)	D.C.	Jones, Ida King (Eng. 11)	D.C.
Jennings, Marcus Christian (Eng. 6)	Md.	Jones, Jack Albert (Univ. Uncl.)	Tex.
B.S. 1924, South Dakota State College	S.Dak.	Jones, Jack Rucker (Jun.)	Va.
Jessup, Daniel Arthur (Col., A.M. 14)	Okla.	Jones, James Russell (Jun. 42)	D.C.
A.B. 1922, The George Washington University		Jones, Lambert Emily (Jun.)	D.C.
Jessup, Gerald Fitzminger (Jun. 37)	Okla.	Jones, Lenora Hawkes (Univ.)	D.C.
Jessup, Ralph Sloumb (Univ.)	D.C.	Jones, Marjorie Ross (Ed., A.M. 17)	Pa.
B.S. 1931, Virginia Polytechnic Institute		A.B. 1922, Bryn Mawr University	
A.M. 1928, The George Washington University		Jones, Ora Cartaway (Ed. 51)	N.C.
Jewell, Max Lony (Col. 103)	D.C.	Jones, Parker Hazlaway (Jun. 77)	D.C.
Johansen, George Thomas (Law II)	D.C.	Jones, Ralph E. (Univ. 2, Law II)	D.C.
John, Leroylyn James (Law I)	Ohio	Jones, Richard O'Donnell (Eng. 31)	D.C.
Graduate 1922, U. S. Naval Academy		Jones, R. Dean (Eng. 34)	Va.
Johnson, Arlin Rex (Grad.)	Utah	Jones, Ruth Parsons (Jun. 33)	D.C.
B.S. 1924, Brigham Young University		Jones, Sara Katherine (Jun. 60)	D.C.
A.M. 1931, The George Washington University		Jones, Jimmy (Jun. 84)	D.C.
Johnson, Benjamin Britton (Med. II)	Ariz.	Jones, Thomas Allen (Eng. 37)	Utah
B.S. 1931, Brigham Young University		Jones, Thomas Fred (Univ.)	D.C.
Johnson, Carl Dalton (Eng. 54)	D.C.	Jones, Walter George (Law I)	Iowa
Johnson, Edward Thomas (Jun. 17)	Va.	Graduate 1922, U. S. Naval Academy	
B.S. 1922, University of California	Calif.	M.C. 1922, Harvard University	
Ed. B. 1932, The George Washington University		Jordan, Ernest Dwyer (Univ.)	Va.
Johnson, Frances Ashlin (Jun. 42)	D.C.	Jordan, Joseph Abner (Jun. 42)	Ga.
Johnson, George Edmund (Law III)	D.C.	Ed. B. 1911, LL.M. 1924, The George Washington University	
B.M.E. 1927, Northeastern University		Jordenson, Marie Rahmberg (Jun. 11)	D.C.
Johnson, James Lloyd (Eng. 110)	Ohio	Jordenson, Irving I. (Med. II)	N.Y.
Johnson, Jerome Herbert (Univ. Uncl.)	D.C.	A.B. 1911, University of Alabama	
Johnson, Joseph Reed (Jun. 28)	Ill.	Joss, Fredrick A. Crawford (Jun. 24)	Calif.
Johnson, LeNor (Univ.)	Idaho	Joss, Charlotte Parsons (Jun. 24)	Mass.
A.B. 1928, Brigham Young University		Joyner, Frances Elizabeth (Jun. 15)	D.C.
Johnson, Lewis R. (Jun. 62)	D.C.	Johnson, Elbert Bell (Eng. 107)	D.C.
		Jumper, Charles Henry, Jr. (F.A. Uncl.)	D.C.
		B.A. 1931, The George Washington University	
		Junik, Samuel John (Jun. 22)	Utah
		Justice, Chester Lee (Law III)	D.C.
		B.S. in E.E. 1928, University of Idaho	

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Kadushin, Herbert Abner (Jun. 64)	N.Y.	Kelley, Russell Marion (Ed., A.M. 12)	D.C.
Kahler, Elizabeth (Col. 97)	D.C.	A.B. 1924, B.Ed. 1924, University of Colorado	
Kahn, Maxine Elizabeth (Jun.)	D.C.	Kellogg, Clyde Elmer (Law III)	D.C.
†Kaiser, Bernice Marie (Ed. 780)	D.C.	Kelly, Helen G. (Ed., Uncl.)	N.Y.
Kale, Norma Josephine (Col., A.M. 15)	Va.	†Kelly, Jean Shaw (Jun. 54)	Va.
A.B. 1926, The George Washington University		†Kelly, Margaret Emogene (Jun. 32)	Mich.
Kammsky, Albert (Jun.)	D.C.	Kelly, Mary Frances (Jun. 51)	D.C.
Kammsky, Milton (Jun., Uncl.)	D.C.	Kelly, Ruth Elizabeth (Univ.)	N.Y.
Kamm, Edmund William E. (Law II)	Ind.	†Kelsey, Leigh Charles, Jr. (Jun.)	D.C.
B.S. in M.E. 1910, Purdue University		Kelso, Dorothy Kathleen (Jun. 12)	D.C.
Kamsky, Israel B. (Jun. 32)	Pa.	Kelso, Leon Hugh (Univ.)	Colo.
†Kane, Margaret Catherine (Univ.)	D.C.	A.B. 1922, University of Denver	
A.B. 1920, The George Washington University		Kelso, Richard Edward (Jun.)	D.C.
Kane, Paul Barnabat (Jun.)	D.C.	Kelam, Ralph Hedger (Med. IV)	Utah
†Kane, Thomas Joseph (Univ.)	D.C.	A.B. 1920, University of Utah	
†Kangas, John Eng. 9)	Mich.	Kempner, Edward (Jun.)	Md.
†Kandoe, Donald Cox (Eng. 9)	W.Va.	Kendall, Gordon Hodgkins (Eng.)	Md.
Kanel, Naomi Marilyn (Med III)	N.Y.	†Kenechek, William N. (Univ.)	Ind.
A.B. 1931, The George Washington University		Keng, Yi Li (Grad.)	China
†Kaplan, Myra (Univ.)	D.C.	B.S. 1927, National Southeastern University, Nankang, China	
†Kaputa, Peter (Col., A.M. 6)	D.C.	A.M. 1922, The George Washington University	
B.S. 1927, Oregon State College		Kengla, Louis Robert (Jun.)	D.C.
Kardell, Jean Maryann (Jun. 60)	D.C.	Kennedy, Alice Elizabeth (Jun.)	D.C.
Kassan, Robert Jack (Med. I)	D.C.	Kennedy, David M. (Law II)	Utah
Katz, Rebecca (Univ.)	Conn.	Kennedy, Elmer B. (Col., A.M.)	D.C.
Katzen, Bernard (Jun.)	D.C.	B.S. 1932, Alabama Polytechnic Institute	
Kaubler, Ella Henrietta (Col. 72)	D.C.	†Kennedy, Elwood White (Jun.)	Va.
Kauffman, Bertha (Col., A.M.)	D.C.	Kennedy, Howard (Law II)	Nebr.
A.B. 1932, The George Washington University		†Kennedy, Miriam Elizabeth (Univ.)	D.C.
Kauffman, Vernet Charles (Law II)	Pa.	A.B. 1932, Wilson College	
B.S. 1928, Pennsylvania State College		†Kennedy, Ralph Grant, Jr. (Univ.)	D.C.
M.S. 1930, Massachusetts Institute of Technology		B.S. 1928, Pennsylvania State College	
†Kauffman, Wilbur Richard (Col., A.M.)	Pa.	A.M. 1932, The George Washington University	
A.B. 1933, The George Washington University		Kennedy, Rena Flagg (Ed. 113)	D.C.
Kay, Max (Jun. 31)	D.C.	Kennedy, Virginia Frances (Jun.)	D.C.
†Keahey, William (Jun. 15)	D.C.	Kennell, Christian Raber (Law I)	Ind.
†Kearns, Harry Joseph (Col. 90)	Colo.	Kent, Edgar Joseph (Med. III)	Pa.
Kearns, Vivian (Col., A.M. 9)	N.C.	B.S. 1929, St. Vincent College	
A.B. 1928, University of North Carolina		Kent, Phoebe (Jun.)	D.C.
Keating, George Joseph (Law II)	N.Y.	Kent, Tyler G. (Univ.)	D.C.
Keatley, George Harold (Law III)	Pa.	Diploma 1912, The Sorbonne, France	Nebr.
Ph.D. 1927, Dickinson College		Kenton, Alice Martha (Univ.)	
†Keating, Edward Maurice (Univ.)	Colo.	A.B. 1921, Peru State Teachers College, Nebr.	
Keaton, McAdoo James (Ed., A.M.)	Tex.	Kephart, Olive Taylor (Col., A.M.)	Md.
A.B. 1925, Howard Payne College		A.B. 1912, The George Washington University	
†Keduev, Esther Anna (Jun.)	N.C.	Kephlinger, Charles Henry (Col., A.M. 20)	Okla.
†Kelauev, Lester Summers (F.A. 124)	Md.	B.S. 1931, University of Tulsa	
†Keele, Mildred Louise (Univ.)	D.C.	Ker, Graham Melville (Univ.)	D.C.
Keele, Clark Beane (Jun. 48)	D.C.	Kerby, John Hardy (Jun. 28)	D.C.
†Keenan, Jeanette G. (Jun. 12)	D.C.	Kerkam, William Barron, Jr. (Law I)	D.C.
Kemper, John Rankin (Law I)	D.C.	B.S. 1932, Princeton University	
Kemsey, Truman Joseph (Jun. 68)	Pa.	†Kern, Edith Kingman (Univ.)	D.C.
Kefauver, George William, Jr. (Eng. 21)	Md.	Kerna, Josephine Adeline (Jun. 50)	D.C.
Kehoe, Elizabeth Agnes (Jun. 69)	Pa.	Kerr, David Bruce (Jun.)	D.C.
Kehoe, Josephine Mae (Jun.)	Mich.	Kerr, Evelyn Ruth (Jun. 02)	Md.
Kelley, Madeline (Jun.)	Md.	Kerr, James Patterson (Jun. 44)	Ill.
†Keleher, Edith Reynolds (Ed. 98)	D.C.	Kerst, Paul Edward (Law II)	
Keller, Alton Higgins (Col., A.M.)	D.C.	Graduate 1928, U. S. Naval Academy	D.C.
A.B. 1932, American University		Kenmodel, William Augustus (Col. 95)	D.C.
Keller, Hunter Lambert (Law I)	D.C.	Kessler, Sylvia Doria (Jun.)	N.Y.
Keller, William Davis (Law III)	Calif.	Kested, Mildred (Col. 93)	Ga.
A.B. 1929, University of Southern California		Keshum, Miriam Blaisdale (L.S. 110)	D.C.
Kelley, Luise (L.S. 76)	D.C.	†Kettler, Mildred Avery (Ed., A.M. 3)	D.C.
Kelley, Robert William (Jun.)	D.C.	B.S. 1911, University of Maryland	
		Keyser, Charles Frank (Col., A.M. 12)	
		A.B. 1931, The George Washington University	



# Students Registered

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Key, William Ward (Law II)	D.C.	Klak, John James (Law, Special)	Wis.
A.B. 1928, Ohio Wesleyan University		B.S. 1923, University of Wisconsin	
†Kibler, Pansy Minnie (Univ.)	Mo.	Klavans, Finist Lee (Jun.)	D.C.
Kibler, Godfrey Lawrence (Ed. 112)	S. Dak.	†Klobbhart, Bernice Janet (Jun. 19)	D.C.
†Kidd, Clarence Jefferson (Univ.)	Tex.	Kleiman, Aaron Harry (Med. III)	D.C.
Kiel, Helen Julia (Jun. 54)	D.C.	A.B. 1926, The George Washington University	
Kietman, John Edmund (Univ.)	D.C.	†Klein, Jane E. (Jun.)	Colo.
A.B. 1920, A.M. 1921, Georgetown University		Klein, Norman Fally (Jun. 49)	D.C.
Kierwan-Yasa, Helen Cogan (Ed. 97)	D.C.	Klunkad, Charles Edward (Jun. 18)	Pa.
Kinsel, Harold Milton (Jun. 24)	Ind.	Klompay, Francis Joseph (Law III)	Ohio
Kierthine, Emma (Law I)	D.C.	B.S. 1922, Carnegie Institute of Technology	
†Kight, Harley Harper (Univ.)	W. Va.	Kline, John Reed (Col., A.M. 37)	D.C.
Kilbourn, Dorothy Wilda (Col. 111)	Kans.	B.S. 1917, University of Missouri	
Kilgore, Lowell Berry (Law II)	D.C.	I.I. B. 1925, The George Washington University	
A.B. 1923, A.M. 1925, Oberlin College		Kline, Philip Sherwood (Univ.)	Md.
Kilgour, Nina Kathryn (Jun. 32)	D.C.	Kline, Robert Charles, Jr. (Law III)	Md.
†Kilmarney, Francis M. (Law I)	Mass.	Kline, Walter Lee (Med. II)	Md.
Killian, Joe E. (Law III)	Mich.	Klivitzky, Boris Max (Law III)	D.C.
Kilreyn, Richard Isaac (Med. III)	N.Y.	A.B. 1921, The George Washington University	
A.B. 1921, The George Washington University		Knapp, Harris (Jun.)	D.C.
Kimball, Arthur Alden (Law III)	Mass.	Knapp, Jane Elizabeth (Jun.)	Md.
A.B. 1921, The George Washington University		Knapp, Leonard (Thomas) (Jun. 14)	Minn.
†Kimball, Max Knowlton (Univ.)	Utah	Knappen, A. MacFarlane (Jun.)	D.C.
Kimberly, Edna Fawcett (Jun.)	D.C.	Knapp, Velma Elvora (Jun. 87)	Colo.
Kime, James Alfred (Col., A.M. 26)	Mo.	Kneubush, Earle Monroe (Jun. 31)	D.C.
B.S. 1922, Tarkio College		Knight, Elizabeth Larned (Univ.)	N.I.
Kimmel, Earl Logan (Jun.)	Md.	Knight, Ernest Milton (Jun.)	R.I.
Kinschelon, Esther Marie (Jun. 60)	Va.	Knight, Frederick Hawley (Law III)	Vt.
King, Donald Sherwood (Eng. 87)	Va.	B.S. in E.E. 1925, Worcester Polytechnic Institute	
King, Eleanor Woodward (Ed. 62)	Va.	†Knight, Robert Ernest, II (Univ.)	Va.
King, Flue Snow (Univ.)	W. Va.	B.S. 1920, University of Virginia	
A.B. 1920, A.M. 1921, The George Washington University		Knight, William Elmer (Jun. 24)	D.C.
King, Florence (L.S. 60)	D.C.	Knight, John A. (Med. I)	Iowa
King, Harvey Winter (Eng. 85)	D.C.	Kniss, Victor Hammond (Col. 84)	D.C.
†King, Henry Kendall (Col., A.M.)	Va.	Knower, Vernon William (Law II)	Wash.
B.S. 1924, The George Washington University		Knorr, Myrtle Posey (Col., A.M. 16)	D.C.
King, James David (Med. III)	China	A.B. 1927, The George Washington University	
A.B. 1921, Miami University		Knott, William Luther (Med. III)	D.C.
†King, Joseph Alloysius (Jun. 15)	D.C.	A.B. 1920, The George Washington University	
King, Lorraine LeBar (Jun. 48)	D.C.	Knowlton, John Wellington (Col. 29)	D.C.
King, Margaret Lumpkin (Col. 23)	Va.	Knowson, James K. (Law II)	Utah
King, Mary Ella (Jun. 64)	Md.	†Koch, Evelyn F. (Univ.)	D.C.
King, Phyllis Elizabeth (Ed. 95)	Pa.	Kocher, Charles Peter (Jun.)	D.C.
King, Raymond S. (Col. 88)	D.C.	Kochka, Joseph Lawrence (Ed., A.M. 9)	D.C.
Kingsbury, Clifford Haikness (Eng. 54)	D.C.	A.B. 1922, The George Washington University	
Kingard, Virginia (Col., A.M.)	Mich.	B.F.S. 1921, Georgetown University	
A.B. 1922, The George Washington University	D.C.	Koehl, George Martin (Col., A.M. 15)	N.Y.
Kinsella, James Francis (Jun. 12)	D.C.	A.B. 1921, University of North Carolina	
Kinsler, Charles Alvin (Jun. 75)	Okla.	Kochler, Arvel Maxwell (Jun. 37)	W. Va.
Kinsler, James M. (Law I)	Nehr.	Kogan, David (Univ.)	N.Y.
Kirtz, Ruth Bagley (Ed. 56)	D.C.	Kohn, Aaron Morton (Jun. 9)	Pa.
Kirkcaldie, Warren Curtis (Jun. 9)	Va.	Kohn, Bernard (Jun. 28)	Md.
Kirkham, Rose Carol (Ed., A.M.)	Utah	Kowner, Virginia Darr (Ed. 28)	D.C.
B.S. 1920, Brigham Young University		Koth, Charles Frederick (Jun. 45)	Ohio
†Kirkpatrick, Frances (Univ.)	D.C.	Kotlanmann, Walter Matthias (Law II)	
A.M. 1920, University of Missouri		B.S. in E.E. 1920, Union College	
A.M. 1920, Columbia University		Kolbet, Simon F. (Jun. 10)	D.C.
†Kirksey, Hazel (Jun.)	La.	Koons, Anna Claire (Jun.)	Ind.
Kirkwood, Woodrow W. (Jun.)	Ga.	Koren, Samuel (Law I)	Mass.
Kirkwood, Jean Caroline (Jun. 64)	D.C.	B.S. 1925, Massachusetts Institute of Technology	
Kirkwood, Robert Hoyt (Law II)	D.C.	Korth, Freder. A. Herman (Law I)	Tex.
A.B. 1924, University of Montana		A.B. 1924, University of Texas	
Kirtelle, Sumner Sushoe (Law I)	N.Y.	Kosowsky, Jack Lee (Law II)	Nehr.
B.S. in C.E. 1921, Purdue University		B.S. in C.E. 1920, University of Nebraska	
Kivica, Lillian Mary (Univ.)	Minn.		

Katz, Ike Hilde (Col. 74)	MA	LaFay, Adam Stanley (Jun. Encl.)	Pa
Kautskos, Christopher Nicholas (Phat. 4)	DC	LaFont, R. th Ross (Jun. 6)	DC
Kowalski, John Francis (Eng. 114)	DC	Lange, John Thomas (Law II)	WVa
Kowarski, Walter Andrew (Law)	Pa	Lanning, Virginia G. (Univ.)	DC
Kraft, Grace Lee (Univ.)	DC	Larkin, Hubert W. (Col., A.M.)	Ark
Kraft, Ruth Selma (Jun.)	W Va	A.B. 1921, The George Washington University	
Kramer, Albert (Law II)	Va.	Lathrop, John Berkeley (Jun.)	DC
B.S. in M.E. 1921, University of Virginia		Larab, Lewis Joseph (Phat. 41)	DC
Kramer, Katherine Lovison (Jun.)	DC	Lamb, William Lee (Jun.)	DC
Kramer, Milton (Med. III)	N.Y.	Lambert, Evelyn Rixson (Ed. 78)	DC
A.B. 1921, The George Washington University		Lamberton, Wayne C. (Eng. 104)	WVa
Krampe, Charlotte Mary (Univ.)	Ohio	Lambson, Vasilev Simov (Jun. 4)	DC
A.B. 1925, Miami University		Lamotte, Angel Germaine (Col., A.M.)	Pa
A.M. 1926, University of Pennsylvania		B.S. 1924, The George Washington University	
Krausner, Reginald Joseph (Law II)	DC	Landy, Florence Paige (Univ.)	DC
A.B. 1920, The George Washington University		A.B. 1920, North Carolina College for Women	
Krasnik, Lewis Henry (Univ.)	DC	A.M. 1922, The George Washington University	
A.B. 1927, A.M. 1928, The George Washington University	Pa.	Landman, Marcell Philip (Jun. 10)	DC
Krauder, Mary Magdalena (Grad.)		Landon, Harold Clarence (Grad.)	Va.
Krauter, Robert Bloom (Jun. 3)	DC	A.B. 1928, A.M. 1929, University of Chicago	
Kreelman, Charles M. (Jun. 80)	Pa.	Landman, Herbert (Jun.)	DC
Kreese, Eugene Earl (Univ.)	DC	Landwehr, Louis (Col., A.M.)	N.Y.
Kruger, Harrison Stark (Univ.)	Pa.	B.S. 1922, College of the City of New York	
Krugel, Abraham Bernard (Law II)	N.Y.	Lane, Donald Edward (Law I)	M.
B.L.S. 1920, Johns Hopkins University		B.S. 1911, Yale University	
Krugos, Dorothy Jeanne (Jun. 5)	DC	Lane, Edward John Henry (Eng.)	DC
Krumholz, Arthur (Col. 75)	DC	Lane, Frank Matthew (Jun.)	DC
Krugos, William Morris (Jun.)	DC	Lane, John (Univ.)	DC
Krup, Stephen (Jun. 3)	Conn.	Lane, Kathryn Junkin (Col. 108)	N.Y.
Krugos, Zora Margaret (Jun. 24)	WVa	Lane, Rachel Penn (Univ.)	DC
Kuck, Mary Constock (Jun. 45)	DC	Lane, Richard Paul (Jun. 29)	DC
Kulbick, Elizabeth Yell (M.E. I)	Ohio	Lane, Robert Phillips (Jun. 20)	N.Y.
Kulmorker, Marie Dorothy (Jun. 30)	DC	Langford, G. Frank (Law III)	
Kunze, John Herman (M.E. II)	Mich.	M.F. 1922, Stevens Institute of Technology	
A.B. 1920, Kalamazoo College		Langlois, George Roland (Jun.)	DC
Kullback, Solomon (Grad.)	N.Y.	Larson, William Wilson (Jun.)	Va.
B.S. 1920, College of the City of New York		Larson, John (Eng. 72)	M.
A.M. 1922, Columbia University		Larson, Robert (Jun. 60)	Mass.
Kuma, Mary Elizabeth (Univ.)	DC	Larson, John Vincent (Law III)	Mass.
Kurtz, Helen Pearl (Law I)	Kans.	Larson, Lawrence Thomas (Jun. 10)	Pa.
Korperstein, I. Joseph (Med. III)	DC	Larson, Sylvan (Jun. 42)	Va.
A.B. 1920, The George Washington University		Larson, Howard (Eng. 26)	Pa.
Kufter, Julia Abile (Ed. 120)	DC	Larson, John Way (Law I)	N.
Kufter, Dorothy Suckton (Ed., A.M. 6)	Pa.	Larson, Irving Gilbert (Col. 102)	Va.
A.B. 1922, Dickinson College		Larson, Eric Lee Newell (Univ.)	Mass.
Kutta, Harold James (Jun. 43)	DC	Larson, John Anthony (Col., A.M.)	
Kutz, Charles Guitney (Eng.)	DC	B.S. 1920, Massachusetts Institute of Technology	
L			
Laz, George Fred (Ed. 52)	Calif.	Latson, Alan R. (Col., A.M. 25)	Pa.
LaBonte, Charles Lee (Jun. 42)	Mass.	B.S. 1920, Brigham Young University	N.D.
LaBovitz, John Stanley (Law II)	Conn.	Lauriat, Clara Helen (Jun.)	Pa.
B.S. 1920, A.M. 1923, Wesleyan University		Larson, R. Vernon (Med. II)	
Larkey, Eugene Stratton (Col. 60)	Va.	B.S. 1920, Utah State Agricultural College	
LaCombe, Louise Antoinette (Univ.)	Mch.	Lascher, Mary Norma (Col., A.M. 24)	Pa.
Lafl, Richard Stewart (Univ.)	DC	Larson, Gerson Anna (Jun. 6)	DC
A.B. 1921, Harvard University		Larson, Anne Wells (Ed. 101)	DC
A.M. 1924, The George Washington University		Last, Alan (Jun. 2)	Pa.
Ladd, Virginia (Jun. 90)	DC	Latham, William Thomas (Eng., Encl.)	Pa.
Ladson, Edna Hazel (Ed. 48)	DC	Lathrop, E. S. (Eng. Col. 8)	Pa.
Lady, David Franklin (Jun.)	DC	Lathrop, Karlsson Moore (Jun.)	Pa.
Lady, William Thornton (Jun.)	DC	Lathrop, Robert Park (Jun.)	Pa.
Lafayette, Charles Ayer (Col., A.M.)	WVa	Lathrop, Cecil (Law II)	
A.B. 1920, Stanford University		B.S. in E.E. 1925, Georgia School of Technology	
		Lathrop, Victor (Univ.)	Pa.
		Latorza, Salvador Joseph (Phat. 20)	

# Students Registered

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Laubinger, Ruth Clara (Jun. 12)	D.C.	Lennahan, Charles Michael (Col. 103)	N. Dak.
Lader, Dorothy Marie (Ed. 64)	D.C.	Lenny, Lewis J. (Law II)	Mass.
Laughlin, Henry W. I. (Univ.)	W. Va.	B.S. 1923, Worcester Polytechnic Institute	
Laurence, Mary (Jun. 4)	D.C.		
Laure, Andrew Louis (Med. IV)	N.J.	Lenox, Marie Edward (Jun. 30)	Ark.
B.S. 1920, Lebanon Valley College		Leonard, Colma Ros (Jun. 47)	Ariz.
Lavine, Estelle (Col. 114)	D.C.	Leonard, Emily Channing (Grad. I)	Md.
Law, Melvin I. (Jun. 24)	Utah	A.B. 1914, Wittenberg College	
Lawrence, Claude F. (S. 1000)	D.C.	A.M. 1916, Ohio State University	
Lawson, Hiram Bennett (Ed. 193)	D.C.	Leonard, Eric A. Rughen (Jun. 31)	Vt.
Lewis, Chionenna Newbold (Jun. 1)	D.C.	Huang, Yau Song (Univ.)	Hawaii
Lewis, Herta (Univ.)	D.C.	A.B. 1924, University of Hawaii	
A.B. 1922, Washington College		A.M. 1928, Columbia University	
Lewis, Leta Cooper (Ed. A.M. 24)	W. Va.	Leeming, Leo John (Law II)	N.Y.
A.B. 1924, West Virginia University		B.S. 1922, Oregon State Agricultural College	
Lewin, Warren Leigh (Eng. 97)	D.C.	Leopold, Max (Law I)	Conn.
Lewin, John Elder (Jun. 13)	D.C.	Ph.D. 1921, Yale University	
Leach, Katharine Alexander (Ed. A.M. 1)	D.C.	Leisner, Henry Albert, Jr. (Eng. 10)	Md.
B.S. 1922, Sweet Briar College		Leitch, Henry B. (Law I)	D.C.
Leach, Morgan (Univ.)	D.C.	A.B. 1924, Wesleyan University	
Leaman, Kathryn Underwood (Ed. A.M. 22)	D.C.	Leisner, Abraham Max (Law I)	D.C.
A.B. 1922, The George Washington University		B.S. in Eng. 1921, University of Pennsylvania	
Leard, Henry (Univ.)	D.C.	Leslie, Constant M. Ned (Col. 80)	N. Dak.
Leatherwood, Reuben Francis (Eng. 110)	D.C.	Leslie, Florence (Jun. 27)	D.C.
Lebel, Arthur Leo (Law I)	D.C.	Leslie, David S. (Law I)	Iowa
B.F.S. 1922, Georgetown University		A.B. 1922, Parsons College	
Lechowitz, Julius (Med. II)	N.Y.	Letting, Kathryn Beach (Jun. 20)	D.C.
Leckie, Jean McLehman (Ed. 78)	D.C.	Levarious, Conn. (Jun. 1)	D.C.
Leckie, Ruth (Ed. 26)	D.C.	Levaries, Peter G. (Col. A.M. 1)	D.C.
Leeman, Hunsbaker B. (Law II)	Va.	A.B. 1922, The George Washington University	
Leitch, Henry (Univ.)	D.C.	Levin, Edwin (Law II)	D.C.
Ph.D. 1921, Georgetown University	N.Y.	Levinthal, Sydney (Law I)	D.C.
Lee, Donald E. (Law II)	W. Va.	Levy, J. Franklin (Col. 75)	D.C.
Lee, Ellen (Univ.)	Iowa	Levin, Abram (Eng. 4)	Pa.
Lee, Francis (Jun. 13)	Idaho	Levin, David (Phar. 24)	D.C.
Lee, Hubert Butler (Eng. 1)	D.C.	Levin, Leon (Jun. 19)	D.C.
Lee, John William (Univ.)	Mo.	Levin, Sam (Jun. 26)	D.C.
Ph.D. 1920, B.S. 1920, University of Oklahoma		Levin, Samuel George (Med. IV)	N.J.
Lee, Joseph Fitzhugh (Univ.)	D.C.	A.B. 1922, The George Washington University	
Lee, Margaret Kathryn (Jun. 1)	Va.	Levin, Simon Louis (Phar. 28)	D.C.
Lee, Russell (Jun. 15)	Okla.	Levine, Abraham M. (Med. II)	D.C.
Lee, Sam Chien (Univ. A.M. 1)	D.C.	A.B. 1922, The George Washington University	
A.B. 1921, San Yatsen University, Canton, China		Levine, Jack Louis (Jun. 1)	D.C.
Lee, Thomas Conrad (Col. 120)	D.C.	Levin, Benjamin (Law II)	D.C.
Lee, William Yushman (J. A. 80)	N.J.	Levy, Haim (Jun. 2)	D.C.
Lee, Yui Hwa (Jun. 42)	D.C.	Levy, Haim Allen (Univ.)	W. Va.
Lees, Robert C. (Univ.)	D.C.	Levy, Jack (Univ.)	D.C.
Leeman, Alphonse Emil (Univ.)	W. Va.	Lewis, Arthur Harry (Med. II)	D.C.
Leiper, Mary Esther (Ed. 28)	N.C.	A.B. 1911, Marshall College	
Leisner, Elmer Thompson (Law, Univ.)	Del.	Lewis, Herman Cohn (Jun. 1)	D.C.
B.S. 1922, University of Delaware		Lewis, Hyman Leon (Col. 99)	D.C.
H.B. 1924, The George Washington University		Lewis, Isabel Martin (Univ.)	D.C.
Leiman, Walter Sherwood (Univ.)	D.C.	A.B. 1922, A.M. 1923, Cornell University	
Leitch, Lucy Hillman (Univ.)	D.C.	Lewis, James H. (Jun. 34)	Pa.
Leitch, Henry Victor (Jun. 75)	D.C.	Lewis, Martin Buckford (Jun. 1)	N.I.
Leitch, Marcelle (Col. A.M. 24)	D.C.	Lewis, Olla L. (Eng. 1)	Ohio
A.B. 1922, The George Washington University		A.B. 1917, M.S. 1922, LL.B. 1928, B.S. in M.E. 1931, The George Washington University	
Leitch, George Paul (Med. III)	Va.	Lewis, Omer El (Univ.)	Kans.
A.B. 1924, The George Washington University		Lewis, Reeve, Jr. (Law I)	D.C.
Leitch, William F. (Jun. 48)	N. Dak.	A.B. 1922, Yale University	
Lewis, Joseph (Univ.)	D.C.	Lewis, Seth (Jun. 1)	D.C.
Lewis, Andrew David (Law I)	D.C.	Lewis, William Alexander, Jr. (Col. A.M. 1)	Kans.
B.S. in Eng. 1922, Princeton University		A.B. 1912, The George Washington University	
Lewis, John (Univ.)	D.C.		
Lewis, David (Jun. 44)	Mass.		



†Lexau, Ole Henry (Univ.) B.S. in C.E. 1928, University of Minnesota	Minn.	Loeffler, Eldridge (Jun.)	D.C.
Leyking, William Henry (Univ.) B.S. 1931, University of Maryland	D.C.	Lofgren, Paul F. (Jun.)	D.C.
Lieber, Margaret Annette (Govt. 79)	D.C.	Lohman, Philip Hans (Col. 92)	D.C.
Liebman, Deborah Mae (Col. 91)	D.C.	Lohmes, George Sanford (Univ.)	D.C.
Lichman, Eunice Frankel (Ed. A.M.) B.S. 1929, University of Chicago	Ill.	†Lohman, Dorothy Barbara (Jun. 4)	Me.
Lichman, Helen Janet (Jun. 7)	D.C.	Lomerson, William Walter (Jun. 11)	D.C.
Light, Philip Morton (Jun. 72)	D.C.	Long, John Aloysius (Jun. 15)	D.C.
Lighthouse, Virginia Dorsey (L.S., Uncl.) A.B. 1932, The George Washington University	D.C.	*Long, Odell Blair (Col. 104)	N.C.
Ligon, David Stravall (Law II)	Va.	Longfellow, Dean Johnson (Col. 84)	D.C.
Liles, Ruth Ellen (Ed. 48)	D.C.	Loose, Alvin Letos (Jun.)	One.
Lilley, Donald Hurley (Col. 89)	D.C.	Lopez, Lila Hortencia (Jun.)	Pa.
Lilly, Jean (Jun. 89)	D.C.	Lord, Clarence Irving (Law III)	Me.
Linch, Mark Niverson (Col. A.M. 11) A.B. 1930, The George Washington University	D.C.	Lord, Marion Elizabeth (Col. A.M. 12) A.B. 1927, University of Maine	D.C.
Lincoln, Harold Wayne (Jun. 50)	D.C.	Lorenz, Eugene Hurdle (Law I)	D.C.
Lineola, Lorraine Evelyn (Jun. 12)	Md.	B.S. 1930, University of Pennsylvania	Calif.
†Lind, Almarusla Catherine (Univ.)	D.C.	Loring, Hubert Scott (Univ.)	
Landquist, Willis J. (Law, L.L.M., Col. 84) L.I.B. 1932, The George Washington University	Minn.	A.B. 1929, Pomona College	
Linebarger, Paul Myron Anthony Col. 113)	D.C.	M.S. 1930, University of Illinois	D.C.
Lineberry, G. W. (Univ.)	D.C.	†Louft, Laure Barbara (Jun.)	D.C.
Lineweaver, Hans (Col. A.M. 26, Univ.) A.B. 1930, The George Washington University	W.Va.	Loutraine, Frank Eli (Grad.)	
Link, Anna Moore (L.S. 102)	W.Va.	A.B. 1924, A.M. 1926, Indiana University	D.C.
Link, Dennis Cleomee (Col. 102)	Iowa	Love, Eugene (Jun.)	Calif.
Link, J. Harold (Eng. 45)	Md.	Love, Howard Theodore (Jun.)	Calif.
Linkins, Louise Kent (Jun. 64)	D.C.	Lovejoy, Rosemary Jane (Jun. 14)	D.C.
Linn, Famous Roy (Univ.)	Mo.	Loveless, Mildred Ward (Jun. 19)	D.C.
Linacott, Henry Dallas (Law III) B.S. 1933, Kansas State Agricultural College	Kana.	Loveless, Verna Evans (Eng. 88)	D.C.
Linton, Calvin Darlington (Jun. 32)	D.C.	†Lovell, Ethel J. (Jun.)	Mass.
Linton, John Hunter (Jun. 30)	D.C.	LoVetere, Angelo Arthur (Med. II)	
Linville, Gilbert Winston (Jun. 40)	D.C.	B.S. 1931, Tufts College	D.C.
Lipschitz, Samuel (Med. III) A.B. 1931, The George Washington University	N.Y.	Loving, James Josephus, Jr. (Univ.) B.S. 1929, Agricultural and Mechanical College of Texas	
†Lipscomb, Andrew Adgate (Jun. 50)	Md.	M.S. 1932, Cornell University	D.C.
Lipscomb, William Robertson (Eng. 39)	Va.	Low, Ethel Klavans (Ed. 80)	D.C.
Litman, Bessie (Col. A.M. 6)	D.C.	Lowdon, Graham Norris (Law III)	
A.B. 1932, The George Washington University		B.S. 1930, Washington and Lee University	W.Va.
†Litman, Sophie (Jun. 6)	D.C.	Low, Charles Samuel (Col. 107)	N.C.
Littell, Charles Henry (Eng. 115)	D.C.	†Low, Robert Chapin (Law I)	D.C.
Little, Leroy C. (Law III) B.S. in E.E. 1924, University of Minnesota	Wis.	†Lowell, May Irene (Ed. 92)	Mass.
Littlehales, George Reber (Law III) B.S. 1921, Princeton University	D.C.	Lowrey, Ferrin Holmes (Law II)	
†Liu, Alexander Ting Fan (Univ.)	China	†Low, Leonard (Jun., Uncl.)	D.C.
†Livingston, Lillian Valentine (Jun. 79)	D.C.	†Loyd, Fehet L. (Univ.)	Calif.
†Livingston, Robert LeRoy (Jun. 30)	D.C.	Lord, Martha Carolyn (Jun. 54)	D.C.
†Livingston, Ruth Ann (Jun. 80)	D.C.	Lu, Da-June (Jun. 71)	D.C.
Lloyd, Fergus L. (Law III) A.M. 18)	Miss.	Luber, Harold Edgar (Col., Uncl.) A.B. 1927, L.I.B. 1928, The George Washington University	D.C.
†Loane, Margaret Larcombe (Col.) A.B. 1928, The George Washington University	D.C.	Lucas, Allene Myrtle (Ed. 60)	Conn.
†Lockhart, Mildred (Jun. 39)	Va.	†Lucas, Graham Joseph (Jun.)	D.C.
Lockhart, Walter Coffill, Jr. (Eng. 14)	D.C.	†Lucas, Mary Lou (Univ.)	D.C.
Lockwood, Corwin Reese (Govt. 105)	Ohio	Lucas, Charlotte Priscilla (Univ.)	D.C.
†Lockwood, Edith Bates (Jun. 25)	D.C.	Luchs, Frank Joseph (Col. 76, Law I)	D.C.
		Ludwig, Wells Edward (Jun. 61)	Mo.
		Ludwig, Laura Emily (Jun. 51)	Va.
		Ludwig, Robert Eugene (Law III) A.B. 1926, The George Washington University	D.C.
		Ludwig, Wilhelmina Sanner (Jun. 38)	Mass.
		*Luers, Edna May (Col., A.M. 27) A.B. 1927, The George Washington University	
		Luers, Margaret Frances (Law I)	Me.
		Luginbuhl, Kathryn Louise (Jun. 45)	Calif.
		Lund, Earl Hildreth (Law II) B.S. in C.E. 1922, C.E. 1923, University of Minnesota	Pa.
		Lund, Phoebe Marian (Col. 97)	Mass.
		Lundberg, George Waldemar (Ed., Uncl.)	D.C.
		Lundberg, Katherine Augusta (Univ.)	D.C.
		†Lundgren, Maynard Benjamin (Law I) A.B. 1920, A.M. 1922, The George Washington University	D.C.
		Lusby, Ralston Newell (Jun. 28)	

## ii

[illegible]

Marco, Joseph (Med. IV)	Calif.	Matson, Frederic Church (Law III)	D.C.
B.S. 1929, Kenyon College		E.E. 1920, Lehigh University	
Marcum, Carlos Philip (Jun. 15)	D.C.	†Mattare, Joseph Henry (Jun.)	D.C.
†Marden, Norman D. (Univ.)	D.C.	†Mattern, John Henderson (Univ.)	D.C.
†Margchal, Elizabeth (Col. 94)	D.C.	†Mattern, Stanley Graser (Jun.)	D.C.
Margolis, Sidney Irving (Jun. 27)	D.C.	†Matterson, Frederick Lewis, jr. (Law III)	Ind.
Margolis, Bernard (Jun. 12)	D.C.	B.S. in C.E. 1925, Rose Polytechnic Institute	
Mark, Benjamin Ralph (Col. 81)	D.C.	†Matthews, Annie Marguerite (Jun. 36)	D.C.
Markheld, Isadore Nathaniel (Jun. 19)	N.Y.	†Matthews, Charles Morris (Eng.)	D.C.
Markwell, Katherine (Law II)	Kans.	†Matthews, George Ernest (Jun. 34)	D.C.
A.B. 1928, University of Kansas		†Mattingley, J. Fredrick (Univ.)	D.C.
Markwood, Ruth (Col. A.M.)	D.C.	†Mattox, Virginia A. (Law I)	D.C.
A.B. 1931, The George Washington University		A.B. 1927, The George Washington University	
†Maroma, Joseph Philip (Univ.)	N.Y.	†Maxey, Sally Amelia (Univ.)	D.C.
†Marquis, Roger Phillips (Col. 96)	D.C.	†Maxwell, Laurel H. (Col. 92)	Mich.
†Marron, Eleanor Louise (Col. 80)	D.C.	†Maxwell, Margaret Jane (Jun. 64)	D.C.
†Marsden, Mary Josephine (Univ.)	D.C.	May, Allen Brown (Jun. 6)	Vi.
†Marshall, Beatrice Topliff (Jun. 30)	D.C.	†May, Carroll Hackney, jr. (Eng. 34)	Te.
†Marshall, Fleeta Anne (Jun. 57)	Fer.	†May, James Truett (Law II)	D.C.
†Marshall, Emma Blanche (Ed. 87)	D.C.	†May, Mary Frances (Col., A.M. 24)	
†Marshall, George Henry (Jun.)	Ga.	A.B. 1931, The George Washington University	
†Marshall, Miriam Ivy (I.S. 81)	D.C.	†May, Parker Marcus (Jun.)	Te.
†Marshall, Willis Howard (Jun. 24)	Mich.	†May, Wilbert Richard (Jun. 44)	N.J.
†Marshman, Esther Weaver (Jun. 56)	N.Y.	†May, William P. (Med. II)	D.C.
†Martin, Anna Katherine (Jun. 18)	Wis.	A.B. 1932, The George Washington University	
†Martin, Elizabeth Hanna (Jun.)	D.C.	†Mayberry, Bernard Cornelius (Law II)	Ill.
†Martin, Elizabeth Lyell (Jun. 14)	Va.	A.B. 1931, University of Illinois	
†Martin, Eugene Maurice (Med. I)	D.C.	Maycock, Richard Walden (Govt. 84)	Wash.
†Martin, Frances A. Phillips (Col., A.M. 12)	D.C.	†Mayer, John Martin (Col. 101)	Pa.
A.B. 1931, The George Washington University		†Mayer, William Francis (Jun.)	Vi.
†Martin, George Bernard (Law III)	Kans.	†Mayers, Harry Ripley (Law II)	Me.
†Martin, Harold Alton (Law II)	Wash.	B.S. 1930, University of Maine	W.Va.
†Martin, Helen (Jun.)	Nebr.	†Mayers, Shirley Duvall (Univ.)	Ind.
†Martin, Henry Stanley (Law III)	Idaho	†Mayhall, Edwin Joe (Jun. 19)	D.C.
†Martin, Herbert Lester (Col. 114)	D.C.	†Mayo, Clara Louise (Jun. 1)	D.C.
†Martin, John Spence (Govt. 63)	D.C.	†Mayo, Margaret Churchill (Ed. 59)	S.
†Martin, M. Lucile (Jun. 64)	Ill.	†Mayzencik, Alon (Jun.)	Cal.
†Martin, Mabelle E. (Univ.)	D.C.	†McAdams, Terry Joseph (Eng. 101)	D.C.
A.B. 1913, A.M. 1914, University of California		†McAtee, George Doshon (Jun.)	Al.
†Martin, Martha F. (Law II)	Ga.	†McAtee, William Francis (Eng. 14)	
†Martin, Ovid Harold (Jun. 48)	D.C.	†McMaster, Frank Dicken (Col. A.M. 11)	
†Martin, Robert Fitz-Randolph (Grad.)	Md.	A.B. 1928, Arkansas State Teachers College	
B.S. 1925, Massachusetts State College		A.B. 1932, The George Washington University	
†Martin, Robert Joseph (Jun.)	D.C.	†McCaffrey, Elva (Jun. 69)	Mass.
†Martin, William Cabiness, jr. (Jun. 46)	D.C.	†McCain, Asa Madison (Jun. 61)	Cal.
†Martinez, Manuel G. (Univ.)	D.C.	†McCain, Catherine Vandy (Jun. 27)	D.C.
Ph.B. 1932, Georgetown University		†McCain, James Gordon (Law I)	D.C.
†Martinez, Ruth Phillips (Col., A.M. 18)	D.C.	†McCall, M. Pearl (Univ.)	D.C.
A.B. 1921, The George Washington University		†McCallig, Virginia Harrison (I.S. 83)	Pa.
†Martinsky, Erwin Ernst (Law I)	N.Y.	†McCammon, Marie Conway (Univ.)	Pa.
†Mashburn, Louise Revere (L.S., Uncl.)	N.C.	†McCauley, George Eugene (Univ.)	Va.
A.B. 1932, Atlanta Christian College		A.B. 1931, Grinnell College	
†Mastrop, W. Earl (Law II)	D.C.	†McCamlish, Robert John (Law II)	D.C.
A.B. 1932, American University		A.B. 1930, University of Maryland	
†Mason, E. Wellford (Law I)	Md.	†McCarthy, Thomas Augustine (Univ.)	
B.S. 1931, The George Washington University		A.B. 1930, The George Washington University	
†Mason, Jack Wellons (Col. 108)	D.C.	†McCarver, Clarence Edward (Ed., A.M. 5)	Te.
†Mason, Richard D. (Law II)	Okla.	A.B. 1931, Howard Payne College	S.C.
B.S. 1928, A.B. 1931, E.E. 1932, University of Oklahoma		†McCay, George (Law I)	D.C.
M.S. in E.F. 1931, Massachusetts Institute of Technology		†McClammy, Marie Gaddy (Univ.)	D.C.
†Mason, William R. (Law II)	Md.	†McClellan, Sidney (Law II)	Pa.
†Massoletti, Lillie (Ed. 98)	Va.	A.B. 1927, University of Idaho	Ohio
†Mastellone, Aniello Francis (Med. II)	N.Y.	†McClelland, Casper Shepard (Law III)	
B.S. 1931, Manhattan College		†McClelland, Mildred Scott (Jun. 87)	
†Matheeson, Harry (Jun. 46)	D.C.		
†Matia, John Charles (Eng., Uncl.)	Ohio		



# Students Registered

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McCleskey, Martha Anne (Col., A.M.) D.C. B.S. 1911, Mississippi State Teachers College		McKenzie, Lawson Morell (Col. 64) McKenzie, Ruth Hays (Col., A.M.) A.B. 1911, The George Washington University	Ind Calif
McCullum, Andrew James (Jun., Und.) D.C. B.S. 1910, University of Maine	Me.	McKinn, Anne Gertrude (Jun. 30)	D.C.
McCullum, Lloyd (Law II.)		McKinn, Ethel Bertha (Jun. 1)	D.C.
McCormick, Alma Barcliff (Jun.) D.C.		McKinnis, Paul (Jun. 64)	Ill.
McCormick, Katharine (Jun. 51)	D.C.	McKinnis, Jane Catharine (Jun.)	D.C.
McCormick, Martha Leonard (Jun., Und.) Ala.		McKinnis, Raymond George (Jun. 34)	Md.
McCord, Estelle Smith (Feb. 33)	D.C.	McKnight, C. Maurice (Law II.)	Okla.
McCormick, Jessie Carpenter (Jun. 51)	N.C.	B.S. in M.F. 1922, Purdue University	
McCormick, John Dominic (Law 3)	D.C.	McKnight, Marwen Nowell (Eng. 58)	Va.
B.S. in C.E. 1911, B.S. in M.E. 1924, The George Washington University		McKnight, Phyllis (Law I.)	S.C.
McCormick, Malcolm Rogers (Col., A.M.) Ohio		McLachlen, Anna Helene (Law I.)	Md.
A.B. 1911, Ohio Wesleyan University		McLachlen, Clifton A. (Jun. 21)	N.H.
McCormick, Robert Knight (Jun. 30)	Md.	McLean, Leland George (Univ.)	Utah
McCoy, Charles Thomas (Jun.)	Kans.	McLennan, Cecil Harold (F.A. 75)	D.C.
McCoy, Clinton Wade (Jun. 30)		McLennan, John Stewart (Univ.)	Mass.
McCoy, Ralph Richard (Jun. 30)	Ind.	McLoud, Robert Beale (Univ.)	Va.
McCoy, John Livingston (Law, H.M.) Mich. Graduate 1915, U.S. Naval Academy LL.B. 1920, The George Washington University		McMahan, James Everett (Jun.)	D.C.
McGorken, Eugene Paul (Law, LL.M.) N.Y. M.F. 1920, Columbia University LL.B. 1920, The George Washington University		McMahan, Margaret Helen (Jun. 9)	Conn.
McLaughlin, Annabelle (Jun. 26)	D.C.	M.M. 1920, Francis Deane (F.D. 23)	Ala.
McLaughlin, Francis Milner (Col. 51)	Ga.	M.M. 1920, Hugh Charles (Govt. 22)	Mich.
McDaniel, Abram White (Jun. 30)	Md.	M.M. 1920, Caroline May (Jun.)	Md.
McDaniel, Ethel Raynor (Univ.)	D.C.	McMullen, Robert Nelson (Jun. 47)	Md.
McDaniel, Janet Almeida (Jun. 41)	D.C.	McMullen, Clarence Vaden (Col. 100)	S.C.
McDaniel, Michael J. (Law II.)	Mass.	McMurry, George Lewis (Jun. 31)	D.C.
McDaniel, Fuschaus D. (Med. II.)	N.Y.	M.M. 1920, Howard E. (Univ.)	Mich.
B.S. 1910, Manhattan College		B.S. 1920, Northwestern University	
McDaniel, Virginia Alice (Jun. 77)	Va.	M. Nallan, Wilbur Thomas (Eng. 20)	Minn.
McDonnell, Oliver Newell (Eng. 30)	D.C.	McNally, Edmund Horron (Col., A.M.) 18	D.C.
McDonnell, Leonard Irving, Jr. (Col. 72)	D.C.	B.S. 1920, The George Washington University	
McDonnell, Sarah E. (Col. 70)	D.C.	McNary, Katherine Ruth (Jun. 20)	Md.
McEne, Edwin Robert (Univ.)	Minn.	McNary, Mary Helen (Col., A.M.) A.B. 1912, The George Washington University	Md.
McEne, Burton A. (Law, Und.)	D.C.	McNeely, John Hamilton (Grad.)	D.C.
A.B. 1920, University of Maryland		A.B. 1910, A.M. 1911, The George Washington University	
McGarry, Daniel Edward (Govt. 100)	N.Y.	McNeill, Caroline Lee (Col. 81)	W.Va.
McGee, Kenneth Claude (Law I.)	D.C.	McNeill, Elizabeth (Col. 90)	D.C.
B.S. 1912, Washington University		McNeill, Frances (Col. 33)	D.C.
McGhee, Louise Elizabeth (Jun.)	D.C.	McNeill, George Hamilton (Law III.)	D.C.
McGinn, Mary Agnes (F.A. 48)	D.C.	A.B. 1910, Wake Forest College	
McGovern, John Francis (Univ.)	D.C.	McNort, Harry Arnold (Hull, Grad.)	D.C.
McGowan, Elizabeth Blair (Jun. 47)	D.C.	B.S. 1915, M.D. 1925, A.M. 1928, The George Washington University	
McGregor, Malcolm Parker (Law I.)	La.	McNott, Geraldine Barlow (Univ.)	D.C.
A.B. 1912, The George Washington University		A.B. 1913, The George Washington University	
McGraw, Steele (Col. 92)	Tenn.	McNott, Agnes Louise (Med. I.)	D.C.
McHugh, Anna Lucretia (Jun.)	D.C.	McPeak, William Wallace (Govt. 22)	Tenn.
McHugh, James Morris (F.A. 97)	Va.	M. Pherson, Terry Matten (Jun. 42)	La.
McHugh, Martin Ignatius Edward (Jun.)	D.C.	McPherson, Albert Eugene (Eng. 115)	D.C.
McHugh, Monica Josephine (Jun.)	D.C.	McPherson, David Caswell (Law I.)	Md.
McInerney, Francis Xavier (Law I.)	Wyo.	McQuarrie, Lewis Bruce (Med. II.)	D.C.
Graduate 1920, U.S. Naval Academy		McQuarrie, Elmer (Jun.)	D.C.
McIntosh, Lucy Elaine (Jun. 48)	Va.	McQueen, Thomas Warren, Jr. (Govt. 192)	D.C.
McIntyre, Robert Varion (Col. 85)	D.C.	McRae, David Hazell (Jun. 24)	D.C.
McIntyre, William Mullins (Col. 68)	D.C.	LL.B. 1904, LL.M. 1927, The George Washington University	Tex.
McJannet, Margaret A. (L.S., Und.)	Ill.	McReynolds, Allen Brooke (Univ.)	Mont.
A.B. 1912, The George Washington University		McReynolds, Margaret Helen (Jun. 26)	D.C.
McKay, Curtis Andrew (Jun.)	Md.	McReynolds, Margaret Henriette Col. 24	Tenn.
McKay, Edgar Walter (Jun. 24)	D.C.	McWilliams, William Kennon (Ed., A.M.)	Miss.
McKay, Craig (Col. 103)	Iowa	B.S. 1917, Mississippi Agricultural and Mechanical College	
McKay, Gladys (Univ.)	D.C.	Meade, John Herbert (Eng. 30)	D.C.
B.S. 1910, Harrisonburg State Teachers College		Mealy, Raymond James (Col. 60)	D.C.
McKee, Sarah Frances (Jun. 32)	D.C.		
McKee, Theodore Roosevelt (Eng. 51)	D.C.		

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Medlen, Paul (Univ.)	Tex.	Mikuszewski, Charles John (Eng.)	Mass.
†Medlin, Robert Gray (Eng.)	Ark.	Milana, Robert Southland (Law II)	D.C.
†Megonigal, James Thomas (Jun. 28)	Va.	E.E. 1929, Cornell University	
Mehler, George Edward (Jun. 16)	D.C.	Milburn, Frances Margaret (Grad.)	Md.
*Memml, Gerald James (Law III)	Oreg.	A.B. 1929, A.M. 1932, The George Washington University	
B.S. 1929, University of Oregon		Milburn, Genevieve Elizabeth (Jun.)	Md.
Metta, Lois Howell (Ed. 96)	D.C.	Miles, Verlin Estelle (Med. IV)	Va.
Mohr, Harry Irwin (Govt. 115)	Tex.	A.B. 1930, The George Washington University	
Melechor, Eleanor Bradford (Ed., A.M. 6)	Va.	Millard, Ray Edward (Jun. 12)	Md.
A.B. 1924, The George Washington University		Millen, Samuel Robert (Jun. 63)	Conn.
†Mele, Modest S. (Eng.)	Mass.	Miller, Beatrice R. (Col. 86)	D.C.
Melhorn, Elsa Ruth (Jun.)	D.C.	Miller, Bennett Goodyear (Law II)	Pa.
Melholster, Thomas Marshall (Jun. 32)	D.C.	Miller, Bruce Ervin (Law III)	Ohio
Melville, Henderson Arlo (Law III)	N.Dak.	A.B. 1931, The George Washington University	
B.S.C. 1926, University of North Dakota		Miller, George Dillon (Eng. 70)	Va.
†Mendelson, Frieda (Jun. 6)	Va.	†Miller, C. Lee (Jun., Uncl.)	D.C.
Menham, Carl Alonso (Grad.)	Mass.	†Miller, Charles Lindsay (Univ.)	Wu.
A.B. 1918, A.M. 1923, Harvard University		†Miller, Cynthia Jewell (Univ.)	Pa.
†Menches, Betty Louise (Jun.)	D.C.	Miller, David Archibald (Jun. 41)	D.C.
Menham, George Stanley Kemp (Med. IV)	Pa.	Miller, Davidson Church (Jun. 32)	Va.
B.S. 1929, University of Pittsburgh		Miller, Elsie Lucille (Jun. 21)	D.C.
†Menke, George Vincent (Law II)	D.C.	Miller, Florence (Jun. 75)	Pa.
A.B. 1929, A.M. 1931, Catholic University of America		Miller, Florian George (Univ.)	
Mennen, Frank Owen (Law III)	Ind.	B.S. in M.E. 1929, University of Michigan	
Mensch, Ivan Norman (Jun.)	D.C.	L.I. B. 1924, The George Washington University	D.C.
Mensch, Maurice (Jun.)	D.C.	Miller, Helen (Univ.)	Ohio
Mensch, Sidney (Jun. 59)	D.C.	Miller, Herman Russell (Eng. 49)	D.C.
Mensik, A. George (Univ.)	Ill.	Miller, John Charles (Grad.)	
Men, Richard Carl (Med. III)	Conn.	B.S. 1916, M.E. 1921, Missouri School of Mines	
A.B. 1931, The George Washington University		A.M. 1928, The George Washington University	D.C.
Mercier, Alfred Albert (Col., A.M.)	Me.	Miller, Joshua (Univ.)	
A.B. 1931, The George Washington University		B.T.E. 1924, Lowell Textile Institute	Mch.
Mercier, Hazel Brewer (L.S., A.M.)	D.C.	Miller, Kenneth Keith (Col. 60)	S.Dak.
A.B. 1916, Pomona College		Miller, Lambert Henry (Law I)	
A.B. 1912, The George Washington University		A.B. 1932, The George Washington University	Pa.
Merdian, Bertha (Ed., A.M. 20)	D.C.	Miller, Lloyd Otto (Jun. 48)	D.C.
A.B. 1911, The George Washington University		†Miller, Louis (Jun. 22)	Ill.
Meredith, Trenton (Col. 102)	D.C.	†Miller, Malinda (Ed., A.M. 25)	D.C.
Meriam, Adele Stuart (Jun. 32)	Md.	†Miller, Margaret Alwine (Jun.)	D.C.
Meriam, Edith Stockton (Jun.)	Md.	Miller, Margaret Helen (Univ.)	N.J.
Meriam, Pink Wilson (Jun. 18)	Md.	Miller, Nathan (Med. IV)	
Mero, Sara Talbert (Univ.)	D.C.	A.B. 1930, The George Washington University	Ind.
Merrill, Alwyn Lowe (Univ.)	D.C.	Miller, Paul R. (Grad.)	
Merrill, Charles Monroe (Col., A.M.)	D.C.	B.S. 1929, Indiana State Teachers College	
B.S. 1928, University of Maryland		M.S. 1931, Purdue University	D.C.
†Merritt, Fannie Fern (Jun. 57)	Me.	Miller, Pearl Mae (Jun. 36)	Md.
Merryman, Philip Ivan (Eng. 44)	Va.	Miller, Ray (Col. 93)	Conn.
Mertlick, Evelyn (Jun. 28)	Wis.	Miller, Raymond (Jun. 21)	D.C.
†Mess, Anna Agnes (Jun. 77)	Va.	Miller, Robert Loren (Jun. 40)	N.Mex.
Messinger, William Jack (Med. I)	N.Y.	Miller, Samuel Joseph (Jun. 49)	
Mewshaw, Elizabeth Savage (Ed., A.M.)	D.C.	Miller, Stanley W. P. (Law II)	
A.B. 1932, The George Washington University		A.B. 1911, University of New Mexico	Va.
†Meyer, Rachel Helen (Jun. 3)	D.C.	Miller, William Sterling (Med. IV)	Mass.
Meyer, Ralph G. (Law III)	Ill.	†Moligan, Polly Coss (Univ.)	N.J.
Michaelson, Joseph McGregor (Univ.)	D.C.	Moliken, Julia Waters (Univ.)	Me.
B.S. 1932, Carnegie Institute of Technology		Moliken, Kenneth Augustus (Col. 88)	Ill.
†Michel, Rudolph (Univ.)	Md.	Mills, Carroll Vandavey (Law II)	D.C.
B.S. 1916, University of Wisconsin		B.S. in C.E. 1930, University of Illinois	Me.
M.S. 1928, University of Illinois		†Mills, Virginia Wall (Jun. 24)	
Michelson, Irving (Jun. 50)	N.Y.	Mills, William Butler (Law II)	
Middlemas, Elizabeth (Col. 64)	D.C.	A.B. 1929, Bowdoin College	Calif.
Middleton, Frederic Andrew (Univ.)	D.C.	A.M. 1931, Syracuse University	
A.B. 1928, University of Maryland		Milmore, Oswald Herman (Law III)	D.C.
Middleton, Harry E. (Jun.)	D.C.	B.S. 1929, University of California	Va.
		Milofsky, Bernard (Jun.)	
		Miltenberger, Fred Emil (Eng. 85)	



# Students Registered

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Minder, Charles Lewis (Jun. 83)	Ohio	†Moon, Nelle Gray (Ed. 92)	Va.
Mines, Florence Zolphia (Univ.)	D.C.	Mooney, Alicia Howard (Jun. 28)	D.C.
Minkin, Sophie Dorothy (Jun. 61)	D.C.	Moore, Bert Raymond (Jun., Uncl.)	Ind.
Minkoff, Joseph Hyman (Jun. 24)	D.C.	Moore, Bessie Beaverton (Jun. 30)	N.Y.
Minnix, Philip Emory (Eng. Uncl.)	D.C.	Moore, George Mansfield (Jun. 37)	D.C.
Minno, Alfred Hamilton (F.A. 97)	D.C.	Moore, Howard Nelson (Law I)	W.Va.
Minor, Aubrey Taylor (Law I)	Ind.	E.E. 1930, Cornell University	
Minor, Francis Ward (Jun. 66)	Iowa	Moore, Lucy Berkeley (Jun.)	Va.
Minsk, Morris Louis (F.A. 78)	Mass	Moore, Lucy Catherine (Jun.)	D.C.
B.S. 1926, Massachusetts Institute of Technology		Moore, Margaret (Ed., A.M. 16)	D.C.
Minsky, Arthur (Med. III)	N.Y.	A.B. 1920, The George Washington University	
A.B. 1920, The George Washington University		Moore, Margaret Thomas (Ed., A.M.)	Va.
Mintz, Seymour Stanley (Law I)	D.C.	A.B. 1931, The George Washington University	
Mira, Anthony Agathon (Med. IV)	N.Y.	Moore, Mina Strachan (Univ.)	Md.
B.S. 1929, College of the City of New York		Moore, Myrtle Elizabeth (Ed., A.M. 12)	D.C.
Mish, Arnold Franklin (Ed., A.M. 9)	W.Va.	A.B. 1927, The George Washington University	
A.B. 1926, West Virginia University		†Moore, Pinninniah O'Delle (Ed., A.M.)	Ga.
Mish, Edith Gale (Jun. 35)	D.C.	A.B. 1921, Shorter College	
Mish, Kemp Hammond (Med. IV)	D.C.	Moore, Reuben Williams (Univ.)	D.C.
†Miss, Harold Brian (Univ.)	Ohio	Moran, Ferdinand Dossay (Jun. 18)	D.C.
Ph.B. 1927, Brown University		†Moran, Leo Vincent (Univ.)	R.I.
M.B.A. 1929, Harvard University		†Moran, Paul Vincent (Univ.)	N.J.
Misch, Valentine Jones (Law II)	Ind.	†Morell, Gustave A. (Col. 115)	Minn.
B.S. in C.E. 1928, Rose Polytechnic Institute		Morgan, Allan Vincent (Med. IV)	Pa.
Mitchell, Alva Edwin (Eng. 105)	Tex.	B.S. 1929, University of Pittsburgh	
Mitchell, Emile Floyd (Law I)	Md.	†Morgan, Charles William (Jun. 34)	D.C.
A.B. 1910, A.M. 1921, The George Washington University		Morgan, Norman Dale (Jun. 42)	D.C.
Mitchell, Emily Bentley (Col., A.M. 26)	D.C.	Morgan, Robert Elmer (Eng. 44)	D.C.
A.B. 1921, Wellesley College		Morgenstein, Alvin (Phat.)	D.C.
Mitchell, Helen Blanche (Col. 64)	D.C.	Ph.G. 1931, The George Washington University	
Mitchell, Herbert Francis, Jr. (Jun. 26)	Md.	Morgenstein, Ruth (Jun.)	D.C.
Mitchell, James Matlack (Col., A.M. 3)	D.C.	Morgenstern, Philip (Col. 60)	N.Y.
A.B. 1923, The George Washington University		Mosbarr, Frederick Henry, Jr. (Univ.)	D.C.
†Mitchell, Orrel James (Ed., A.M.)	D.C.	A.B. 1931, Lehigh University	
A.B. 1929, Georgetown University		Morin, Rachel C. (Univ.)	Mich.
Mitchell, Robert Wesley (Univ.)	Md.	Moslan, Wilson Jesse (Jun. 26)	Ohio
Moran, Jacques Henri (Med. IV)	Pa.	†Morrill, Giles Oliver (Jun. 21)	Wash.
Moran, John (Univ.)	D.C.	†Morris, Carmen Constance Collier (Col. 122)	Va.
B.S. 1928, Washington University		†Morris, Corella Styles (Col., A.M.)	D.C.
A.B. 1912, The George Washington University		A.B. 1921, The George Washington University	
Morars, Paul L. (Eng. 71)	Md.	Morris, Eleanor Virginia (Col. 87)	Md.
†Mos, Lieber, Allen Daniel (Jun. 10)	D.C.	Morris, Herman Jackson (Col. 74)	Okl.
Moffett, Richard Paul (Col. 72)	D.C.	Morris, James Craig (Univ.)	D.C.
Mosagen, Myrtle (Ed. 73)	N.Dak.	Morris, John Joseph (Law III)	Va.
Mohagen, Verna C. (Govt. 89)	N.Dak.	B.S. 1928, University of Virginia	
†Morgan, Andrew C. (Jun. 15)	Ohio	Morris, Lynn B. (Law II)	Utah
(Deceased)		Morris, Robert (Univ.)	D.C.
Mosier, Jean Lawson (Ed. 85)	D.C.	Morris, Sara Roberta (Ed. 104)	D.C.
Mosneaux, John William (Jun.)	D.C.	Morris, Walter Newell (Law II)	Va.
Mosneaux, Ruth King (Ed. 115)	D.C.	†Mortisette, Roland Guy (Eng.)	D.C.
Moncure, Marguerite Virginia (Jun.)	Va.	Morrison, Alice S. (Univ.)	D.C.
Moncure, Marion Elizabeth (Jun. 10)	Va.	Morrison, Jack Harold (Univ.)	Kan.
†Moncure, Richard (Univ.)	Va.	Morrison, Norma Lucille (Ed. 75)	D.C.
Moncure, Robert Clarke (Jun. 83)	Va.	†Morrow, Jean (Univ.)	D.C.
Moncure, Erma W. (Jun. 79)	D.C.	†Morrow, Montgomery (Med. I)	D.C.
Mons, Francis (Jun. 39)	N.Y.	†Morse, John Frye (Jun.)	D.C.
Morse, George Edward (Law, I.L.M.)	D.C.	†Morse, Alva Patricia (Univ.)	D.C.
A.B. 1928, LL.B. 1930, The George Washington University		A.B. 1927, Wellesley College	
Monroe, Charles (Jun. 18)	D.C.	Mosimer, George H. (Eng. 71)	D.C.
Monroe, Helen Elizabeth (Col. 97)	D.C.	B.S. 1925, Brigham Young University	
Monroe, John Herbert (Jun.)	D.C.	Morton, Irving Leon, Jr. (Jun. 16)	N.C.
Monroe, Mildred William (Jun. 51)	D.C.	Morton, John (Law II)	Mass.
Morris, Lolita Flora (Jun. 15)	Del.	Mosman, John William, Jr. (Eng. 72)	Md.
Montgomery, Marjorie Lawton (Col. 114)	D.C.	Moser, Karl Jones (Col., A.M. 20)	Mo.
Montgomery, Richard Douglas (Jun. 12)	D.C.	B.S. 1925, Central Missouri State	
Montgomery, Sarah Victorine (Univ.)	Va.	Ica beta College	
		†Moses, Arthur McK. (Col. 91)	D.C.
		Moses, Marywade (Jun. 59)	D.C.





# Students Registered

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Nelson, Marjorie Mae (Jun.)	Tex.	Nordlinger, Bernat I. I. (Law III)	D.C.
Nelson, Melville Cary (Law II)	N.C.	A.B. 1922, The George Washington University	
B.S. in Eng. 1912, The George Washington University		Nordlinger, Gordon H. (Jun. 34)	D.C.
(Nelson, Pauline Leannette (Jun. Uncl.)	Ill.	Nordling, Lane Smith (Jun. 34)	Va.
Nelson, Rex Kenneth (Jun. 20)	Iowa	Nordley, Myrtle Elaine (Jun. 8)	Minn.
Nelson, Shasta Vining (Ed. 65)	Va.	Nordley, William Henry (Law II)	Minn.
Nelson, William E. (Univ.)	D.C.	B.M.E. 1922, University of Minnesota	
Nesbit, Mary Katherine (Col. 112)	Kans.	(Norman, Clyde Leaman (Univ.)	Okla.
Nesbitt, Clarence Cannon (Law I)	Utah	(Norman, Eleanor Rhine (Ed. 124)	D.C.
A.B. 1922, University of Utah		(Norris, Henry G. (Law, LL.M.)	La.
Nesbitt, Marian West (Jun.)	D.C.	H.B. 1924, The George Washington University	
Nevasser, Albert Edward (Jun. 14)	D.C.	Norris, John Gilbert (Law III)	D.C.
Newberger, Belle R. (Univ.)	Ill.	A.B. 1921, The George Washington University	
B.S. 1922, Northwestern University		Norris, William Harry (Col., Uncl.)	Va.
Newbold, James (Univ.)	D.C.	Northing, Edward Skottowe (Law I)	Md.
Newcome, Elmer Davis (Jun.)	D.C.	Northing, Lewis Yount (Phat. 42)	Md.
Newark, Anne Louise (Jun. 18)	D.C.	(Norton, Kirk Gilmore (Univ.)	Kans.
Nesland, Paul (Jun. 15)	Ill.	Norton, Leland Dean (Col. A.M. 18)	D.C.
Neslin, John Wigton (Law III)	Pa.	A.B. 1920, The George Washington University	
A.B. 1921, The George Washington University		Norton, P. I. Jr. (Law III)	Tex.
Newman, Arthur Leonard (Jun.)	N.Y.	A.B. 1928, University of Texas	
Newman, James Dreman (Law I)	Ark.	Norton, Robert Foushee (Med. III)	Ga.
A.B. 1924, University of Arkansas		(Norton, William Forrest (Law II)	Ala.
Newman, Jewel Ernestine (Jun. 20)	D.C.	Nowaki, Maoria (Law)	D.C.
Newton, Edward Taylor (Law III)	Ga.	Noves, Emma Ma Arthur (Col. 62)	Pa.
B.S. in E.E. 1926, Georgia Institute of Technology		Noyes, Ruth Mace (Jun.)	Mass.
Newton, Gaylord Weld (Law II)	N.Y.	Nugent, John Anthony (Eng. 125)	Va.
B.S. in M.E. 1922, New York University		Nusham, Walter Woodruff (Eng.)	Pa.
Newson, Harry Paul (Grad.)	Ill.	Nutter, Helen Florence (Jun. 41)	Va.
A.B. 1921, A.M. 1926, Baylor University		Nutter, John Barrows (Jun. 37)	D.C.
Nichols, Irvine Harrison (Govt. 27)	Wis.	Nye, William David (Jun.)	D.C.
Nichols, Lorraine Montgomery (Jun.)	Md.	(Nye, Ming-Hwa (Univ.)	China
Nichols, Louis B. (Law II)	Mich.	A.B. 1921, The George Washington University	
Nichols, Louise Kilgour (Jun. 41)	Va.	Nyholm, Jens Peter (Col. A.M. 24)	Denmark
Nichols, Malored January (Ed. 114)	Va.	B.S. 1928, Columbia University	
Nichols, Robert Cary, Jr. (Law I)	Va.		
Nichols, Woodard Rayfield (Jun. Uncl.)	N.I.		
Nicholson, Gordon A. (Law II)	Utah		
Nicholson, I. Frank (Jun. 50)	Md.		
Nichols, Walter Stanley, Jr. (Phat. 11)	Va.		
Nichols, Glen Edwin (Eng. 70)	D.C.		
Nichols, Ralph John (Univ.)	D.C.		
Nichols, Ras A. (Ed. 114)	Minn.		
Nichols, Carl Vase (Jun.)	D.C.		
Nichols, Gertrude F. (Ed. 75)	D.C.		
Nichols, Dorothy Louise (Col. 94)	M.I.		
Nichols, Thomas Kenny (Jun. 70)	D.C.		
Nickamag, Suga (Law I)	Siam		
Nichols, Beatrice Mary (Col. 97)	Mass.		
Nichols, Glenn Carter (Col. A.M. 12)	Iowa		
A.B. 1928, Simpson College			
Nichols, Jesson Conley (Jun. 77)	Utah		
Nichols, Olivia Ruth (Jun. 11)	D.C.		
Nichols, Anne Draper (L.S., A.M.)	D.C.		
M.P.L. 1911, A.B. 1913, The George Washington University			
Nichols, Bernita Demarest (Jun. 51)	Va.		
Nichols, Gordon Richard (Eng. 80)	Va.		
Nichols, James Edward (Law III)	Mass.		
B.S. in E.E. 1926, Arts College			
Nichols, William Richard (Jun. Uncl.)	D.C.		
Nichols, Marie Catherine (Law III)	Minn.		
A.B. 1916, The George Washington University			
Nichols, Jesse Isabel (Jun.)	N.Y.		
Nichols, Margaret (Univ.)	Japan		
Nichols, Paul Foster (Med. III)	Pa.		
B.S. 1921, Allegheny College			
Nichols, William Joseph (Jun. 31)	D.C.		
Nichols, E. Selma (Univ.)	S.Dak.		
A.B. 1932, University of South Dakota			

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Oakley, Chester Arthur (Univ.)	R.I.
Oliver, Logan Hall Bowles (Jun. 33)	Ga.
O'Brien, Anna G. (Jun. 55)	D.C.
O'Brien, Everett (Univ.)	Minn.
O'Brien, Margaret Arden (Univ.)	D.C.
O'Brien, Margaret Eileen (Ed., Uncl.)	D.C.
O'Brien, Marie Harvey (Jun. 48)	D.C.
O'Brien, Mary Eucharist (Jun. 41)	D.C.
O'Brien, Mary Weldon (Univ.)	Conn.
O'Brien, Thomas Doran (Jun. 53)	D.C.
O'Brien, William Talbot (Law II)	W.Va.
A.B. 1926, West Virginia Wesleyan College	
Ocheret, Irving (Med. III)	N.J.
A.B. 1911, The George Washington University	
O'Connell, Charles Edward (Eng. 55)	Conn.
O'Connor, David Joseph (Univ.)	N.Y.
O'Connor, Ernest Myra (Jun. 52)	Md.
O'Connor, John Francis (Eng. 87)	D.C.
O'Connor, Margaret Victoria (Jun. 20)	D.C.
O'Connor, Mary Magdalene (Jun. 7)	D.C.
O'Connor, Robert Thomas (Jun. 40)	Mass.
O'Donnell, William Joseph, Jr. (Univ.)	D.C.
O'Donnell, Andrew Francis (Jun. 70)	D.C.
O'Donnell, Edna V. (Col. A.M. 24)	Va.
A.B. 1928, West Virginia University	
O'Flaherty, Maude Irene (Col. A.M.)	Va.
A.B. 1920, The George Washington University	
Ogus, Alfred (Med. II)	D.C.

- O'Halloran, Thomas Alvin (Eng. 96) Va.  
 O'Hern, Olive Ann (Univ.) D.C.  
 †O'Keefe, Arthur Bernard, Jr. (Col. 86) Conn.  
 Okerlund, Walter M. (Eng. 29) Mich.  
 Oliver, Barton Dickson (Jun. 38) Va.  
 †Oliver, Estelle Isabel (Ed., A.M. 24) Tex.  
 A.B. 1922, The George Washington University  
 †Oliver, Rayma (Univ.) D.C.  
 Olney, Margaret Adams (Jun. 60) Va.  
 Olson, Henry Camper (Eng. 61) Utah  
 †Olson, Herbert Hungerford, Jr. (Jun. 45) D.C.  
 Olson, Niels Andrew (Law II) Idaho  
 Olson, Earl Stanley (Law III) Md.  
 B.S. 1927, University of Washington  
 †Olson, John Benjamin (Jun. 60) D.C.  
 O'Malley, Thomas R. (Law III) Ill.  
 B.S. 1910, Armour Institute of Technology  
 Omwake, Mildred E. (Ed. 1922) D.C.  
 Oppenick, William Charles (Jun.) Pa.  
 Oppenheim, Seymour Randolph (Jun.) N.Y.  
 Opsahl, Harold E. (Med. II) Minn.  
 Oram, Archie L. (Jun. 33) D.C.  
 Orben, Lloyd Deering (Med. III) N.Y.  
 Orbaugh, Frances M. (Univ.) Kan.  
 Orenstein, Bessie Bette (Jun.) D.C.  
 Orleans, Sol (Univ.) D.C.  
 A.B. 1912, The George Washington University  
 †O'Rourke, Lyle F. (Univ.) Nebr.  
 A.B. 1911, LL.B. 1911, Creighton University  
 Orpi, Pedro Colon (Jun. 51) P.R.  
 Orr, Joseph Lorenzo (Col. 90) D.C.  
 B.S. 1910, South Dakota State College of Agriculture  
 †Orr, Raymond Lewis (Eng. 25) Ala.  
 Orrick, Albert Lewis (Jun. 30) D.C.  
 Orvis, Harold Julius (Med. III) N.J.  
 A.B. 1911, The George Washington University  
 Orth, Elizabeth Caroline (Ed. 106) D.C.  
 †Ostaz, Benjamin C. (Univ.) N.Mex.  
 †Ostrom, William Henry (Univ.) Utah  
 B.S. in Eng. 1912, The George Washington University  
 Osborn, Eleanor Russell (Univ.) Conn.  
 Osborn, Martha Louise (Col. 04) N.Y.  
 Osborne, John Broadus (Law II) S.C.  
 A.B. 1916, Furman University  
 †Osborne, Raymond Dwight (Jun.) Mass.  
 †Osborne, Washell Bienaimée (Jun. 18) D.C.  
 †Osgood, Elliott Dayton (Jun.) D.C.  
 †Ossen, Edward Robert (Col. 105) Conn.  
 Ossen, Jay Jack (Law II) Conn.  
 Ostesman, John Gilbert (Jun. 12) D.C.  
 Ostrolenk, Morris (Col., A.M. 8) N.Y.  
 B.S. 1929, University of Maryland  
 O'Sullivan, Arthur Joseph (Jun.) D.C.  
 O'Sullivan, Kathleen A. (Col. 127) D.C.  
 Osuna, Margarita P. (Col. 96) N.Mex.  
 †Ott, Betty Motter (Univ.) Pa.  
 Overby, Dovey Ruth (Jun. 52) Miss.  
 Owen, Allen (Law III) Ohio  
 B.S. 1913, University of Michigan  
 Owen, Eugene Davis (Grad.) Iowa  
 A.B. 1915, Cornell College  
 A.M. 1916, University of North Carolina  
 Owen, George Frederick (Ed., Ed.D.) Colo.  
 A.B. 1923, Northwest Nazarene College  
 A.M. 1922, The George Washington University  
 Owens, George Harold (Col., A.M.) D.C.  
 A.B. 1932, Randolph-Macon College  
 Oxenburgh, Beatrice Sylvia (Ed. 68) D.C.  
 Oxenburgh, Gerald Isaac (Law III) D.C.  
 A.B. 1911, The George Washington University  
 Over, Esther Grace (Univ.) D.C.  
 Oyster, Thomas Gambrell (Eng.) Md.  
 P  
 Padgett, Anna Madeline (Ed. 24) D.C.  
 Pagan, Molly White (Jun. 28) D.C.  
 Pagan, Oliver Elwood (Law I) D.C.  
 Page, Georgia Edith (Jun. 39) Mo.  
 Page, Maurice Hudson (Law I) Va.  
 B.S. 1910, A.M. 1911, Middlebury College  
 Page, Robert Morris (Col., A.M. 26) D.C.  
 B.S. 1927, Hamline University  
 Painter, Eunice Merle Mozelle (Law I) Va.  
 †Painter, Florence Marie (Ed. 102) D.C.  
 Paskley, Jack Newton (Jun. 80) Ind.  
 Paltreyman, Loris M. (Eng. 12) La.  
 †Pallaster, Mervyn Victor (Univ.) Mich.  
 Palmer, Jesse Joseph Webb (Law I) D.C.  
 A.B. 1923, A.M. 1925, The George Washington University  
 Palmer, Rosalie Brennan (Jun.) D.C.  
 Palmieri, Anthony Lewis (Univ.) Conn.  
 †Palmote, Julian Ivanhoe, Jr. (Law II) Md.  
 B.S. in C.E. 1910, University of North Carolina  
 Panzarella, Joseph Albert (Med. II) N.Y.  
 A.B. 1911, The George Washington University  
 Papamichas, George (Univ.) D.C.  
 Pappas, Platoma E. (Jun. 53) D.C.  
 Parady, Louise A. M. (Jun.) Kan.  
 Parol, James Donald (Law II) La.  
 Parent, Ernest James (Med. II) D.C.  
 B.S. 1911, Catholic University of America  
 †Paris, Ena-Beth Couchman (Jun. 3) Colo.  
 Paris, Vinard LeVaine (Jun.) Colo.  
 †Parker, Albin M. (Law, Uncl.) N.J.  
 B.S. in M.E. 1928, University of Maine  
 LL.B. 1913, The George Washington University  
 †Parker, Andrew (Univ.) Me.  
 Parker, Anne Wright (L.S. 90) D.C.  
 Parker, Charles Bernard (Law II) Mass.  
 B.S. 1927, M.S. 1928, Worcester Polytechnic Institute  
 Parker, Donald William (Law II) Conn.  
 Parker, Hartwell Ruedy (Govt. 128) Ohio  
 †Parker, Jack Owen (Jun. 53) D.C.  
 Parker, Laurence (Jun. 60) Va.  
 Parker, Mary Frances (Univ.) D.C.  
 †Parker, Milton (Jun. 34) N.Y.  
 †Parker, Ralmond Bacon (Law III) D.C.  
 A.B. 1911, University of Michigan  
 Parker, Ruth Ann (Jun. 67) Ga.  
 Parker, William Francis (Eng. 17) Ind.  
 †Parker, William Louis (Law I) Conn.  
 B.B.A. 1912, University of Texas  
 Parkin, Ernest Johnstone (Col. 120) D.C.  
 †Parks, Karl Eaton, II (Univ.) D.C.  
 Parks, Mary Louise (Jun. 64) D.C.  
 Parlate, Edward Joseph (Univ.) Ohio  
 Parmele, Doris Lucia (Jun. 9) W.Va.  
 †Parrack, Werden Ethel (Jun. 69) Ind.  
 †Parrish, Alice Adelle (Univ.) Tex.  
 Parrish, Eldon M. (Law III) Tex.  
 Parrish, Elmer William (Jun. 89) Utah  
 Parrish, Finis Irving (Col. 93)  
 Parrish, James Wayne (Law I)



# Students Registered

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Parrott, Lacuta Ethel (Univ.)	D.C.	Perlson, Joseph (Med. II)	Wis.
Parrott, William McDowell (Univ.)	D.C.	A.B. 1931, University of Wisconsin	
Parsons, Carra S. (Jun. 3)	Colo.	Perlstein Sam (Phar. 42, Univ.)	D.C.
Parsons, Donald Johnson (Jun. 60)	D.C.	Permut, Jack (Law II)	D.C.
Parsons, Douglas Bond (Jun. 12)	D.C.	A.B. 1931, The George Washington University	
Parsons, George Samuel (Law III)	Colo.	Perrin, Mary Herndon (L.S., Uncl.)	Va.
Parsons, John Earl (Eng. 51)	D.C.	Perring, Katherine (Col. A.M., Law I)	Iowa
Parsons, Richard A. (Law II)	D.C.	A.B. 1932, Grinnell College	
B.S. in M.E. 1930, The George Washington University		†Perry, Albert Walter (Law, L.I. M)	Fla.
†Pascal, Charles Morton (Jun.)	D.C.	L.L.B. 1932, The George Washington University	
†Pascal, Louise Lues (Ed. 103)	France	Petty, John Watson (Jun. 61)	D.C.
†Pascob, Maurice Bernard (Law II)	Wis.	†Petty, Josephine A. (Univ.)	Kan.
Pasma, Miriam Charissa (Jun. 26)	Ma.	†Petter, Fannie Irene (Col. 111)	Ill.
Pates, William Melvin (Jun. 31)	Va.	Peter, Walter Gibson, jr. (F.A. 109)	D.C.
†Patock, William Earle, sr. (Eng. 1)	R.I.	†Peters, Lillian Anne (Ed., A.M.)	D.C.
†Patrum, Kenneth Walter (Jun. 36)	Okla.	A.B. 1932, Marietta College	
Patterson, Donald Gilhe (Law III)	N.H.	Peters, May Ellnor (L.S. 99)	Ind.
Patterson, Helen Ella (Jun.)	D.C.	Petersen, Stanley Wilhelm (Univ.)	N.Y.
Patterson, Melvin (Law III)	N.Y.	†Peterson, Ben Stuart (Law I)	Idaho
Patterson, Phyllis Lea (Ed. 81)	D.C.	†Peterson, Leigh Orville (Jun. 25)	Wis.
†Patterson, Robert John (Law II)	N.Y.	†Petrie, Kenneth (Univ.)	Va.
B.S. 1930, Clarkson College of Technology		A.B. 1927, University of Maryland	
†Patterson, Robert Trescott (Col. A.M. 12)	D.C.	Petro, Elizabeth (Univ.)	Pa.
A.B. 1931, Dickinson College		†Petty, Edwina M. (Univ.)	Pa.
†Pattie, Esther Warren (Jun.)	Va.	†Petty, Louise O. (Univ.)	D.C.
†Pattison, Leah Frances (Jun.)	D.C.	Petty, Mary Elizabeth (Col. 112)	Ma.
†Paul, Joseph Barnert (Govt. 67)	Va.	Peverell, William Leroy (Law III)	D.C.
†Paulson, Lynn Clifford (Law II)	N.C.	B.S. in M.E. 1927, University of Maryland	
A.B. 1931, The George Washington University		Philips, Catherine Margaret (Col. 76)	D.C.
Paulus, George Melchior (Law II)	Wa.	Philips, Elizabeth (Univ.)	Tex.
Payne, Golda Smith (Jun. 103)	D.C.	†Philips, Horace Bruton (Jun. 8)	Tex.
Payne, Howard S. (Col. A.M. 36)	Va.	Philips, James Luther (Univ.)	Fla.
A.B. 1929, The George Washington University		Philips, Robert Everett (Eng. 36)	Ma.
Payne, Laura Emile (Jun. 12)	Va.	Philips, John Dewey (Univ.)	D.C.
Payne, Nellie Angeline (Ed. A.M. 12)	Va.	A.B. 1924, A.M. 1928, University of Texas	
A.B. 1932, The George Washington University		Philip, Fayette Harris (Univ.)	Calif.
Payne, Russell Crandle (Jun. 31)	D.C.	Ph.G. 1901, University of California	
Payne, Seymour Blair (Jun. 35)	D.C.	Phillips, Bernath Eugene (Jun. 27)	D.C.
†Pearce, Hardy Lee (Ed. A.M. 19)	Tex.	Phillips, Catherine Estelle (Grad.)	Va.
A.B. 1930, Simmons University		A.B. 1923, A.M. 1927, The George Washington University	
†Pearce, Mary Jesse (Ed., A.M. 12)	D.C.	†Phillips, Charles Emory (Col. 105)	Ma.
B.S. 1925, University of Chattanooga		L.L.B. 1925, L.I. M. 1926, The George Washington University	
†Pearson, John Thomas (Law, L.I. M.)	Mo.	†Phillips, Clifton Wharton (Jun., Uncl.)	D.C.
L.L.B. 1916, Kansas University		†Phillips, Clyde Ellis (Jun. 48)	D.C.
†Pearson, Mary Estelle (Jun.)	D.C.	†Phillips, Constance Velma (Jun. 6)	N.Dak.
†Peblo, John (Univ.)	D.C.	†Phillips, Edith (L.S., A.M.)	D.C.
†Peck, Allan Earle (Univ.)	D.C.	A.B. 1932, The George Washington University	
†Peckham, Henry Lincoln, jr. (Med. III)	D.C.	Phillips, Jules Ludin (Eng.)	D.C.
A.B. 1931, The George Washington University		Phillips, Lawrence Alers (Law III)	D.C.
†Peckham, Winifred Alida (Col. 78)	Pa.	A.B. 1931, The George Washington University	
†Pedersen, Lawrence B. (Law III)	Iowa	Phillips, Mary Alice (Jun. 76)	Ma.
A.B. 1926, Grinnell College		Phillips, Pandora (Univ.)	D.C.
†Peella Branton Catheld, jr. (Law II)	Ma.	†Phoebe, Esther J. (Jun. 93)	D.C.
†Pegram, Thomas Edward (Law I)	Miss.	†Piet, Walter Robert, jr. (Jun.)	D.C.
Pennhacker, Amelia L. (Univ.)	D.C.	†Pikens, Dallas (Law II)	D.C.
†Pennell, Elliott Harrison (Univ.)	Me.	†Pikens, Henri Batcheller (Jun. 50)	D.C.
B.S. 1926, Bowdoin College		†Pickett, Deets Lamar (Jun.)	Va.
†Perry, Nathan (Med. IV)	N.Y.	Pierce, Charlotte Gertrude (Jun.)	D.C.
A.B. 1929, The George Washington University		Pierce, Edward Randolph (Jun. 16)	Va.
B.S. 1926, New York University		Pierce, Mary Elizabeth (Jun. 43)	D.C.
†Pepper, Lucille L.S. (Uncl.)	W.Va.	†Pietson, William Theodore (Jun. 24)	Iowa
A.B. 1928, Salem College		Pegg, Virginia Doris (Jun.)	Va.
†Perry, Mildred; St. Martin, Ed. A.M. 18)	D.C.	†Peggott, Willard R. (Univ.)	Va.
A.B. 1930, The George Washington University		Pegman, George Leroy (Eng. 50)	Ill.
†Perkins, Rose (Univ.)	D.C.	Pegman, William Ward (Col. A.M. 3)	Ill.
		B.S. 1932, The George Washington University	

Pillars, Miles Dorwin (Law III)	Oreg.	†Potter, Wilbur C. (Col., A.M. 26)	Minn.
B.S. 1928, Oregon State Agricultural College		A.B. 1925, Gustavus Adolphus College	Ind.
†Pinching, Gladys Dorothy (Jun.)	D.C.	Porter, William Bracken (Law II)	AA
†Pinck, Esther S. (Univ.)	D.C.	Porterfield, Dorothy (Jun. 53)	Pa.
Pincock, Glen (Med. III)	D.C.	Portnov, Maurice Marvin (Law I)	
Pinera, Felix Martin (Eng., Uncl.)	P.I.	B.S. 1925, University of Illinois	D.C.
Pinso, Joseph Alexander (Col., Uncl.)	N.I.	Post, Carolyn (L.S., Uncl.)	
Pinso, Muriel Alice (Jun. 36)	Wyo.	A.B. 1925, University of California	D.C.
Pinzari, Francis Joseph (Law III)	N.Y.	Porter, Gordon Vanderbilt (Jun. 37)	Va.
E.E. 1920, Rensselaer Polytechnic Institute		Porter, Rae Wagner (Jun.)	D.C.
Pite, William (Jun., Uncl.)	Conn.	Porter, Ralph Edward (Univ.)	Me.
Pitt, Land Rolland (L.S., Uncl.)	Minn.	Portos, Nicholas Dimitri (Jun. 24)	Pa.
A.B. 1928, Northwestern University		†Povich, Bernard Lydore (Univ.)	
Pitt, Richard Vernon, Jr. (Univ.)	D.C.	Powell, Gladys (Law II)	
Pittle, Herbert (Law I)	D.C.	A.B. 1932, John B. Stetson University	D.C.
Pitman, John Irwin (Law I)	Va.	Powell, Harold Seally (Law III)	
Pitts, Bessie May (Col. 196)	D.C.	B.S. 1925, University of Maine	1928
Pitts, Lorena (Col. 64)	D.C.	Powell, Milton Junior (Jun. 57)	D.C.
Pitts, Henry Carleton (Jun. 12)	D.C.	Powell, Sophy Hubster, Col., A.M. 18)	
Pitt, Helen Manville (Col., A.M. 24)	Ind.	A.B. 1928, University of California	Pa.
A.B. 1926, Goucher College		Powell, William McKelden (Eng. 81)	D.C.
Ploss, Verla Irene (Jun.)	Iowa	†Power, James Eugene (Univ.)	D.C.
Plotnick, Ben (Law I)	Ind.	†Powers, Richard James (Eng. 50)	D.C.
Plunge, John Ade (Law II)	Mass.	Prangle, Curtis Frederick (Law II)	D.C.
B.S. 1929, M.S. 1931, Massachusetts Institute of Technology		B.S. in L.E. 1930, The George Washington University	19
Plunge, Virginia (Jun. 57)	D.C.	†Prather, William Harold (Univ.)	N.Y.
†Plumb, Emily Gray (Univ.)	Pa.	Prauche, Amalie W. (L.D., A.M. 19)	
A.B. 1925, University of California		A.B. 1925, Columbia University	D.C.
Podius, Seymour (Jun.)	D.C.	Prescott, Kenneth Earle (Eng. 122)	N.C.
Pohlman, Robert George (Col., A.M. 9)	D.C.	†Prescott, William Wallace (Univ.)	D.C.
A.B. 1934, The George Washington University		Press, Emil Osmus (Eng. 27)	(8)
Polacoff, Molly (Col., A.M. 6)	Va.	Press, Arthur Anthony (Med. II)	
A.B. 1932, The George Washington University		A.B. 1931, Hiram College	D.C.
Polacoff, Yetta (Ed., A.M.)	Va.	Price, Adele Spence (Ed. 190)	D.C.
A.B. 1932, The George Washington University		†Price, Emmett William (Grad.)	
Polkowitz, Morton Lee (Law III)	N.J.	D.V.M. 1928, The George Washington University	Pa.
A.B. 1931, The George Washington University		M.S. 1931, American University	D.C.
Pollard, George Marvin (Col. 91)	Mo.	Price, Eugene Joshua (Jun. 30)	Go.
Pollack, Ross E. (Grad.)	D.C.	†Price, Gertrude Fulton (Jun. 60)	
B.S. 1930, Lafayette College		†Price, Henry Ellis (Law I)	
A.M. 1932, The George Washington University		A.B. 1932, Emory University	43
Pond, Wayne Young (Jun. 42)	D.C.	Price, James Charles (Med. IV)	Me.
Pool, William Ordo (Grad.)	Miss.	Price, Leonard H. (Law II)	D.C.
B.S. 1928, Mississippi Agricultural and Mechanical College		Prehand, Catharine Robina (Col. 85)	D.C.
†Poole, Virginia Leigh (Ed. 66)	Me.	Prinn, Margaret Jeanette (Col. 60)	D.C.
†Poole, William Halbert (Law I)	Me.	†Prevette, Almira Mae (Ed. 68)	D.C.
Poor, John Wubert (Govt. 80)	Mo.	†Prober, Joseph William (Eng. 17)	D.C.
Pope, Chester Isaac (Jun. 45)	Kans.	Proctor, Stuart Evans (Jun. 42)	D.C.
Pope, Virginia Henshaw (Jun. 28)	D.C.	Prother, Claude Lee (Eng. 34)	D.C.
†Poppeno, Charles Holcomb (Grad.)	Kans.	Prother, Edith Louise (Jun. 42)	D.C.
B.S. 1925, Kansas State Agricultural College		†Proulx, Charles F. (Eng.)	
Popkin, Michael Sherman (Med. II)	Conn.	B.S. in C.E. 1927, The George Washington University	D.C.
B.S. 1931, Yale University		Proutt, Mary Dargentfield (Jun. 6)	N.Y.
Popkins, George Ross (Col. 101)	D.C.	†Pugh, Everett Hurley (Jun. 46)	1
Porosky, Sidney (Jun.)	D.C.	†Pugsley, Celeste Rash (Jun. 61)	8 D.C.
Porosky, Sylvia Myrtred (Jun. 77)	D.C.	†Puhl, Marie C. (Col., A.M. 15)	
Porro, Fortunato Igino (Law I)	Mass.	B.S. 1925, South Dakota State College of Agriculture and Mechanical Arts	Pa.
Portch, Joseph Harry, Jr. (Eng. 54)	D.C.	†Puls, Richard I. (Eng.)	Me.
†Portch, Richard Chasency (Univ.)	D.C.	Pumphrey, Elizabeth Elvira (Univ.)	Pa.
Porter, Alexander Mann (Law II)	D.C.	†Pumphrey, Ernest Zevastin (Jun.)	D.C.
†Porter, Dorothy (Jun. 47)	D.C.	Pumphrey, Leontine Preston (Col. 81)	Pa.
Porter, George Walter (Law II)	N.Y.	†Purches, Mary Kewen (Univ.)	P.I.
A.B. 1931, Dartmouth College		Partholon, Alfredo Faine (Jun. 57)	Me.
Porter, Katherine Manderson (Jun.)	D.C.	†Pures, Vance (Col. 64)	D.C.
		Pyles, Helen Elizabeth (Univ.)	

# Students Registered

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## Q

Quam, James Henry (Jun. 15)	N.Y.
Quade, Franklin L. (Law II)	Ohio
B.S. in M.E. 1910, University of Michigan	
Quattrini, Clarence B. (Med. II)	Wash.
B.S. 1911, University of Washington	
Quinn, William John (Eng. 45)	D.C.
Quinn, James Clifton (Col. A.M.)	D.C.
A.B. 1912, The George Washington University	
Quigley, Bruce Shull (Jun. Und.)	D.C.
Quinn, Juan R. (Law III)	P.I.
B.E.S. 1927, Georgetown University	
Quinn, Dorothy Viola (Jun. 42)	D.C.
Quinn, Joseph Patrick (Col. A.M. 19)	Md.
A.B. 1911, The George Washington University	
Quinn, Passasio (Med. I)	P.R.
Quinter, Ralph (Merly Univ.)	D.C.
Quisenberry, Ethel Elizabeth (Univ.)	D.C.

## R

Rabin, Murvin (Jun.)	N.Y.
Rabinovitch, Julius Samuel (Jun. 24)	D.C.
Rabinovitch, Rosalinda Rose Marie (Univ.)	N.Y.
Rabin, Morris Abram (Med. II)	Pa.
B.S. 1912, University of Pittsburgh	
Rabin, Elmer L. (Grad.)	Tenn.
B.S. 1905, Peabody College for Teachers	
Rader, Lewis Franklin (Col. 119)	Colo.
Rader, Melvin Alva (P.A. 145)	D.C.
Rader, Dora (Jun.)	D.C.
Rader, Julius John (Med. II)	D.C.
A.B. 1906, University of Maryland	
Rader, William Wier (Jun. 47)	D.C.
Rader, Richard Glover (Law II)	D.C.
B.S. in Eng. 1911, The George Washington University	
Rafalko, Joseph Stanley (Grad.)	D.C.
A.B. 1906, Villanova College	
M. 1911, University of Pennsylvania	
Rae, William (Med. II)	D.C.
Rae, Joseph Bernard (Jun. 52)	D.C.
Rae, Margaret Ann (Univ.)	Nebr.
Rae, Frederick (Blackwell) (Univ.)	Mass.
A.B. 1907, Radcliffe College	
Rae, Emerald Melton (Grad.)	D.C.
A.B. 1912, Nebraska Wesleyan University	
Rae, John Dempster (Univ.)	D.C.
A.B. 1914, Northwestern University	
Rae, Robert (Jun. 1)	Mass.
Rae, Chester Eugene (Col. 94)	Va.
Rae, Gordon Elizabeth (Col. 11)	D.C.
Rae, Ralph Elson (Col. 102)	Iowa
Rae, Alva Virginia (Univ.)	Md.
Rae, Bert Martin (Eng. 1)	D.C.
Rae, Cary Jacobson (Law I)	Va.
A.B. 1907, University of Virginia	
Rae, Margaret Lamer (Jun.)	D.C.
Rae, Ross Foster (Jun. 37)	Ind.
Rae, Ivy W. (Univ.)	Va.
A.B. 1912, Fawcett College	
Rae, Frederick Albert (Jun. 1)	D.C.
Rae, Kenneth (Univ.)	N.C.
A.B. 1911, University of North Carolina	
Rae, Joseph Harold (Eng. 49)	Iowa
Rae, Jack (Jun. 1)	D.C.
Rae, John Paul, Jr. (Jun. 70)	D.C.

Raney, Franz William (Eng. 62)	Ohio
Raney, Nelson (Law 1)	D.C.
Rashard, James Oral (P.A. 62)	Utah
Raskowski, Leo J. (A.M. 18)	Ohio
A.B. 1912, Ohio State University	
Ratcliff, Clarence Althea (Jun. 20)	D.C.
Ratcliff, Roger (Jun. 1)	D.C.
Ratcliffe, Joseph Leeson (Law III)	D.C.
A.B. 1911, The George Washington University	
Ratcliff, Sydney Melville (Col. 94)	D.C.
Rathburn, M. Hudson (Law II)	Colo.
B.S. 1921, University of Colorado	
Rathburn, Kenneth Neil (Jun. 1)	Kans.
Rathmann, Ernest Avenue (Univ.)	Minn.
Raver, Sarah Irene (P.A. 85)	D.C.
Rawalt, Margaret (Col. 75, Law III)	Tex.
Rawlings, Frank Freeman (Jun. 1)	D.C.
Rawlings, Fred B. (Jun. 12)	D.C.
Rav, Ruth R. (Jun. 57)	Ohio
Raymond, Aubrey May (Jun. 5)	D.C.
Raymond, Mary Jane (Gov. 80)	D.C.
H. B. 1911, The George Washington University	
Rayor, Josephine L.S. 113	D.C.
Rea, Patricia Maudslow (Jun. 76)	Md.
Rea, Herbert Allen (Phys. 41)	D.C.
Rea, Margaret Virginia (Univ.)	Va.
Rea, Phyllis Rogers (Univ. 5)	N.H.
Ready, Daniel (Col. 192)	D.C.
Reardon, Corinne Edna (Col. A.M. 27)	Va.
A.B. 1918, Randolph-Mason Woman's College	
Reavis, Betty Hill (L.S. 193)	N.C.
Rebeker, Dora Adeline (Univ.)	Calif.
Reichman, Allen (Univ.)	Iowa
Reid, Gordon (Law I)	Minn.
B.S. in M.E. 1922, University of Minnesota	
Reid, Hattie Mae (Jun. 1)	D.C.
Reid, Mabel Christina (Law I)	Mont.
A.B. 1911, The George Washington University	
Reilly, Martha Elizabeth (Univ.)	Va.
Rees, Elizabeth Ann (Law I)	Va.
A.B. 1912, The George Washington University	
Rees, Howard David (L.S. 67)	Md.
Rees, Clyde Buckney (Med. IV)	D.C.
Rees, Elizabeth Amelia (Col. 114)	D.C.
Reeves, George William (Med. III)	D.C.
Reeves, Winifred Marjorie (Univ.)	D.C.
Reif, Benjamin F. (Med. IV)	N.Y.
A.B. 1929, The George Washington University	
Rehder, Harold Alfred (Univ.)	D.C.
A.B. 1920, Bowdoin College	
Reid, Stella Mae (Jun. 18)	N.C.
Reif, Irving Lester (Med. I)	N.Y.
B.S. 1912, University of Virginia	
Reilly, Elizabeth (Jun. 51)	D.C.
Remley, Ralph Day (Col. 119)	D.C.
Remsburg, Ralph Nathaniel (Univ.)	D.C.
B.S. 1927, Hood College	
Remsen, Charles Correll, Jr. (Law III)	N.J.
F.H. 1910, Cornell University	
Reid, Julia Helen (Jun. 15)	Pa.
Reisen, George Elias (Col. 68)	D.C.
Reininger, Lester O. (Eng. 1)	D.C.
A.B. 1911, The George Washington University	
Repett, Rosemary Gertrude (Jun. 12)	D.C.



†Renfroe, Thelma Alice (Law I)	D.C.	†Ringness, Henry Robert (Col. 64)	D.C.
A.B. 1930, The George Washington University		Rinker, Rowden Carrington (Jun.)	D.C.
Reum, Gladys Fredericka (Jun. 41)	D.C.	Rioch, Isabel Kirk (L.S. 84)	D.C.
Revercomb, Everett Eugene (Govt. 64)	Va.	Riordan, Robert Callahan (Law II)	D.C.
Revilla, Antonio Gonzalez (Med. I)	Panama	B.S. in M.E. 1920, Catholic University of America	
Rex, Louise Mary (Jun.)	Mont.	†Rippey, Aaron Stanton (Col. 69)	D.C.
†Reves, Simplicio E. (Col., Uncl.)	P.I.	Rittensour, John Russell (Jun.)	D.C.
†Reymer, Stephen Edward (Univ.)	Ohio	Rittensour, Marion Russell (L.S. 104)	D.C.
Reynolds, Berry Veronica (Col. 94)	D.C.	Ritter, Frederica Gilbert (Univ.)	D.C.
Reynolds, Edith I. (Univ.)	D.C.	A.B. 1932, Cornell University	
Reynolds, Robert Rex (Eng. 18)	D.C.	Roache, Fred Brinning (Med. III)	Ky.
Reynolds, Robert Theodore (Jun. 18)	Va.	A.B. 1931, The George Washington University	
Reznek, Ben (Eng. 30)	D.C.	Robb, Charles Stuart, Jr. (Univ.)	Md.
Reznek, Joel (Law II)	D.C.	Robb, Harry Joseph (Med. IV)	Pa.
Reznek, Louis (Eng. 22)	D.C.	B.S. 1920, University of Pittsburgh	
Rhine, George Ernest (Eng. 14)	D.C.	Robb, Theodore (Ed. 90)	Md.
Rhine, Walter Frederick (Eng. 50)	D.C.	*Robbins, Carol Alger (Ed., A.M. 25)	Cal.
Rhinehart, Walter Leon (Jun. 55)	D.C.	A.B. 1912, Ohio State University	
Rhoads, Cecelia (Jun. 65)	D.C.	Robbins, Irving (Med. III)	D.C.
†Rhoades, Jane Adair (Jun. 31)	D.C.	B.S. 1920, M.S. 1930, New York University	
†Rhodes, David Harrison (Jun.)	D.C.	Robbins, Nathan (Med. II)	N.Y.
†Rice, Austin (Univ.)	D.C.	A.B. 1932, Syracuse University	
†Rice, Donald Arthur (Univ.)	N.Y.	A.M. 1931, The George Washington University	
Rice, Elizabeth (Col. 82)	Wash.	Robeck, Clausen A. (Ed., A.M.)	Md.
†Rice, George Milton (Govt. 91)	D.C.	B.Eng. 1931, Johns Hopkins University	M.C.
Rice, Mary Lois (Jun.)	D.C.	Roberts, Elizabeth Burgess (Jun. 37)	D.C.
Rice, Roland (Law III)	Md.	Roberts, Esther Adams (Univ.)	D.C.
A.B. 1929, American University		Roberts, Eugene Joseph (Law II)	
Richard, D. Albert Joseph (Med. II)	La.	B.S. 1930, University of Maryland	
Richards, Agnes Genevieve (Jun.)	D.C.	†Roberts, Nina Dorothy (Jun., Uncl.)	D.C.
Richards, J. Walsh (Law II)	D.C.	Roberts, Ralph S. (Law III)	Cal.
Richards, Karl Morgan (Law II)	Utah	†Roberts, Walter E. (Jun.)	Ind.
A.B. 1927, University of Utah		Robertson, Dudley Leville (Jun. 18)	Ind.
Richardson, Charles Randolph (Jun. 16)	D.C.	Robertson, Edward Donald (Jun. 48)	D.C.
†Richardson, Florence Gertrude (Univ.)	D.C.	Robertson, James Christopher (Eng. 16)	Md.
Richardson, Francis Xavier (Med. IV)	D.C.	Robertson, John William (Jun.)	W.Va.
†Richardson, Grace Katherine (Jun. 43)	Ark.	Robinson, Charles Francis (Col. 62)	D.C.
Richardson, James William (Jun. 18)	Utah	Robinson, Elizabeth Winona (Ed. 90)	D.C.
Richardson, Marie Elizabeth (Jun.)	Ark.	Robinson, Howard Randolph (Jun. 60)	D.C.
Richey, Robert Charles (Law III)	Ohio	†Robinson, Howardine Trotter (Univ.)	D.C.
Richmond, Claude Manby, Ed., A.M. 8)	Va.	Robinson, James Burnham (Eng. 76)	Mo.
B.S. 1924, College of William and Mary		†Robinson, Jewell Alba (Jun.)	D.C.
Richmond, David Walker (Law I)	Kans.	†Robinson, Louise Burdette (Jun.)	D.C.
Richmond, Hilda Wright (Col., A.M. 15)	D.C.	†Robinson, Marie Elizabeth (Univ.)	D.C.
A.B. 1928, The George Washington University		Robinson, Murray (Eng. 33)	Md.
Richtmeyer, Duane Case (Col. 102)	N.Y.	Robinson, Murry M. (Med. II)	
M.D. 1932, The George Washington University		A.B. 1931, The George Washington University	
Richwine, Alfred Henry (Med. IV)	D.C.	Robinson, Robert Erin (Jun.)	Md.
Richwine, Barton Winters (Med. III)	D.C.	Robinson, William Walker (Col. 75, Law III)	Ky.
†Ricketts, Arthur David (Jun. 32)	D.C.	†Roccati, Edgar John (Eng. 13)	D.C.
†Riddiough, Charles Raymond (Eng.)	Utah	Roche, William Alfred (Eng. 59)	D.C.
†Ridgway, Frances Burke (Jun.)	D.C.	Rock, Dorothy Virginia (Col. 69)	D.C.
Ridgway, Robert Henderson (Col., A.M. 13)	D.C.	Rockwell, Margaret (Col. 94)	D.C.
E.M. 1921, University of Minnesota		Rockcap, Shirley Haxell (Univ.)	D.C.
†Riecks, Henry Edward (Univ.)	D.C.	Rodeck, Herbert Alfred (Col. 102)	D.C.
Rigby, Scott G. (Law I)	Iowa	†Rodgers, George C. (Law III)	D.C.
†Riggles, Ira William (Law. Special)	D.C.	B.S. 1929, Davis and Elkins College	
Riggs, William Adams (Jun. 70)	D.C.	Rodgers, Kathryn Shale (Ed. 66)	D.C.
†Richter, Mary Grace (Jun. 12)	N.J.	Ros, Austin Gerard (Jun.)	Va.
†Rigney, Edward Eugene (Law II)	N.Y.	Ros, Edward Thomas (Col. 110)	Md.
A.B. 1911, Hobart College		Rosier, Carl Henry (Eng. 65)	W.Va.
Riley, Ethel Eleanor (Ed., A.M. 24)	D.C.	Rosstiger, Henry Arthur (Eng. 90)	D.C.
Ph.B. 1903, Ohio University		Rogers, Frances Hume (Ed. 72)	D.C.
Riley, James O. (Jun. 75)	D.C.	Rogers, John Howard (Eng. 34)	D.C.
†Riley, Mary Magdalen (Univ.)	Pa.	Rogers, Katharine Fowler (Ed. 100)	Va.
Riley, Thaddeus Ambrose (Eng. 123)	Mo.	Rogers, Ranger (Univ.)	W.Va.
†Rinehart, Theodore A. (Col. 100)	Okl.	Rogge, Edgar A. (Med. II)	
L.L.B. 1932, The George Washington University		†Rohleder, Grace Irene (Jun. 60)	

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Rohrer, Carl Peffer (Law III)	Va	†Rover, Walter John (Eng. 74)	D.C.
A.B. 1941, The George Washington University		Rozink, Frank (Law 3)	D.C.
Roland, William Franklin (Eng. 10)	Va	†Ruchstein, Rosa Lillian (Jun.)	D.C.
Rollins, Frank Carlton (Eng. 21)	D.C.	Rubin, David (Law)	D.C.
Rollins, Mary Lockett (Col., A.M. 32)	Mass.	Rubin, Philip (Phil. 31)	D.C.
A.B. 1928, H. Sophie Newcomb College		†Ruhmavita, Leo (Col., A.M. 3)	N.Y.
Rollins, Pearl Sylvia (Col. 87)	Mass.	B.S. in M.F. 1932, Cooper Union Institute	
Rollins, Richard (Col. 113)	Va	†Rucker, Clara Maude (Univ.)	Md.
Romhilt, Arthur Carl (Jun. 61)	D.C.	†Rucker, Elmer Parks (Law 24)	D.C.
Romney, Blanche Taylor (Law II)	Utah	Rudd, Elizabeth Draper (Jun. 16)	D.C.
Romney, Kenneth, Jr. (Univ.)	D.C.	Ruels, Arthur Peter (Med. III)	D.C.
Rosall, James Hall (Law III)	Ind.	Rudinet, Carl (Med. 1)	N.Y.
A.B. 1949, Earlham College		Rudner, Nathan (Jun. 32)	N.Y.
†Ronning, Henry Leach (Law II)	Minn.	Rundiger, Imogene (Law 14, A.M. 2)	D.C.
†Rosa, Mary Mae (Grad.)	D.C.	A.B. 1931, The George Washington University	
A.B. 1925, University of Texas		Ruriger, Monte Hazel (S.S. 194)	D.C.
Rosa, Raymond V. (Univ.)	D.C.	Rule, Raymond (Law III)	D.C.
B.S. in C.E. 1928, Norwich University		Rumney, Frances Louise (Jun. 29)	Md.
Rose, Elizabeth Whiting (L.S. 95)	D.C.	†Rumney, Delmar Cassen (Col., A.M. 24)	W.Va.
Rose, Frank William, Jr. (Col., A.M. 18)	D.C.	A.B. 1927, West Virginia University	
B.S. 1923, University of Virginia		Ruppert, J. Albert (Law, L.M.)	Pa.
Rose, Jesse Aaron (Law, Spec.)	Md.	A.B. 1927, Ohio State University	
LL.B. 1927, University of Maryland		LL.B. 1931, The George Washington University	
Rose, Mary Elizabeth (Col. 60)	Ill.	Rupert, Sheldon (Law II)	Mich.
Rose, Mary Milder (Jun.)	D.C.	A.B. 1931, Kalamazoo College	
Rose, Ralph Hamilton (Eng. 60)	D.C.	†Rupp, Katherine (Jun. 7)	D.C.
Rose, Walford (Univ.)	D.C.	†Ruppert, Fize Christine (Univ.)	D.C.
Ross, Louis (Univ.)	D.C.	†Rush, Orville Finley (Law II)	D.C.
Rosenbaum, Julius (Jun.)	D.C.	Russell, Armstrong George (Jun. 20)	Va.
Rosenberg, Maurice D., Jr. (Jun., Und.)	D.C.	Russell, Beatrice M. (Ed., Und.)	D.C.
Rosenberg, Marian (Ed. 99)	D.C.	Russell, Charles Mackley (Jun., Und.)	Md.
Rosenfeld, Della (Ed. 92)	D.C.	Russell, Frank B. (Law II)	Ala.
Rosenstein, Naomi Deborah (Jun.)	N.J.	A.B. 1931, University of Alabama	
†Rosenstein, Martin (Univ.)	Mass.	†Russell, Maude Bethany (Jun. 12)	D.C.
†Rough, Len (Eng., Und.)		Russell, Mary Porter (Jun. 53)	D.C.
LL.B. 1932, The George Washington University		†Russell, Thomas L. (Grad.)	Ark.
Ross, Bradford (Jun. 42)	D.C.	A.B. 1922, A.M. 1931, The George Washington University	
Ross, Catev Ovat (Jun. 32)	Va	Russo, Carl (Jun. 97)	Conn.
Ross, George John (Law I)	Utah	Russellville, Francis Edward (Med. I)	D.C.
Ross, Josephine Haines (Grad.)	D.C.	Ruth, Dorothy Mae (Col., A.M. 9)	D.C.
A.B. 1931, Wellesley College		A.B. 1926, The George Washington University	
A.M. 1932, The George Washington University		†Ryan, John Walker (Jun.)	Va.
Ross, Louis (Jun. 39)	D.C.	†Ryan, Martin Ambrose (Univ.)	Md.
Ross, Peter William (Med. IV)	Pa.	†Ryder, Harriet M. Lehigh (Jun. 24)	D.C.
B.S. 1932, University of Pittsburgh		†Ryder, Louis John (Univ.)	Va.
Ross, Russell Rodney (Eng.)	Va	†Ryerston, Oliver Edward (Law III)	D.C.
Ross, Stanley Edward (Law II)	Mich.	A.B. 1928, University of Maryland	
B.S. 1926, Michigan State College of Agriculture and Applied Science			
Ross, William Bradford (Jun.)	D.C.		
Rossman, Richard (Univ.)	Iowa		
A.B. 1926, Cornell University			
LL.B. 1925, The George Washington University			
Roth, David (Eng. 14)	D.C.		
Rote, Max Weymouth, Jr. (Jun. 50)	D.C.		
Roth, Delight (Col. 100)	D.C.		
Roth, George Martin (Col., A.M. 21)	D.C.		
A.B. 1916, The George Washington University			
Rothberg, Clarence Follmer (Law III)	D.C.		
A.B. 1935, University of Kentucky			
†Rothstein, Miriam Thelma (Col. 60)	D.C.		
†Roudsback, William Gladstone (Law I)	D.C.		
Rouse, Mary Rosella (Ed., A.M. 33)	Va		
A.B. 1927, The George Washington University			
†Rouse, Sara Pierce (Ed. 99)	D.C.		
Royce, John Frederick (Eng. 14)	Ky.		
Royer, Clark W. (Med. III)	Mich.		
A.B. 1931, Albion College			

*St. Henry, Sister Mary (Phar. 22)	Md.	Schermerhorn, Lee Richard (Eng. 22)	Wash.
Sacks, George Panagioton (Eng. 82)	D.C.	*Schermerhorn, Vincent A. tot (Jun. 18)	D.C.
LI. B. 1920, The George Washington University		Schimmel, Joseph (Law II)	Md.
Salsbury, Clarence Arnold (Law II)	Kans.	B.S. in Ch. E. 1923, Carnegie Institute of Technology	D.C.
Salloun, Edward Adcock (Jun. 44)	D.C.	Schindell, David Harold (Col. 58)	N.H.
Salmon, Mary Jane (Jun. 26)	D.C.	*Schlaifer, Norman Sam (Jun. 1)	Md.
Salomon, Emory Leo (Jun. 12)	D.C.	Schlichter, William George (Jun. 84)	S.Dak.
Salomon, Sylvia Irene (Col. 64)	D.C.	Schliogel, Clifford Schmidt (Jun. 23)	D.C.
*Salsburg, Stanley Joseph (Law I)	Del.	Schlauch, Elizabeth Pauline (Jun. 1)	N.Dak.
A.B. 1923, University of Delaware		*Schlosker, Alvin Carl (Col. A.M.)	
Saltzman, Frank R. (Law II)	D.C.	A.B. 1924, The George Washington University	Md.
Sampath, Sheshiah (Jun. 60)	India	*Schlote, George Christopher (Univ.)	
Samuel, Samuel Loewy (Col. 66)	D.C.	B.S. in E.E. 1922, Purdue University	
Sandall, Eleanor Tripp (Law I)	D.C.	M.S. 1924, New York University	D.C.
Ph. B. 1922, University of Chicago		Schmeltz, Andrew Hubert (Law II)	
Sandberg, Katherine Sophie (Col. 102)	D.C.	A.B. 1928, University of Pittsburgh	D.C.
Sanders, Bessie Gruber (Ed., A.M.)	D.C.	Schmid, Hazel Luella (Jun. 1)	
B.S. 1922, Columbia University		*Schmidt, Anne Marie Veronique (Jun. 1)	D.C.
*Sanders, Halford B. (Ed., A.M.)	D.C.	Schmidt, Bernice (Jun. 1)	D.C.
A.B. 1920, Harvard University		Schmidt, Miriam Elizabeth (Jun. 1)	D.C.
Sanderson, James Calhoun (Eng. 38)	D.C.	Schmidt, Regina Marie (Ed. 121)	D.C.
Sandridge, Emma Jean (Col. 25)	Va.	Schmidt, Walter (Philo. Law I)	
*Sandison, Mildred Lee (Col., A.M.)	D.C.	A.B. 1924, The George Washington University	W.D.
B.S. 1924, Missouri State Teachers College		Schmidt, Wilbur A. (Law, II M.)	
*Sandler, Bertha Friedberg (Jun. 1)	D.C.	LI. B. 1922, Marquette University	Md.
Sands, William Hupp (Law I)	Md.	*Schmitt, Edwin George (Eng.)	W.D.
A.B. 1921, University of Pennsylvania		Schmitt, Paul Joseph (Law II)	
Sanger, Emerson Joseph (Med. III)	Mich.	B.S. in M.E. 1922, Purdue University	D.C.
B.S. 1921, Hillsdale College		Schneider, Harold (Phar. 84)	D.C.
Sangster, George Edward (Eng.)	D.C.	Schneider, Henrietta Andree (Jun. 2)	D.C.
Sangster, Harold Lee (Eng. 54)	D.C.	Schneider, Nazale Hammond (Jun. 1)	D.C.
*Sannebeck, Norville Harrison (Law I)	Mo.	Schneider, Robert Hamlin (Jun. 1)	S.Dak.
A.B. 1921, The George Washington University		Schoenfelder, Otto William (Govt. 142)	Va.
*Sansbury, Donald Neilson (Jun. 1)	Md.	Schoenher, Angela Horton (Jun. 45)	D.C.
*Santos, Felissimo A. (Ed., A.M. 16)	P.I.	Schofer, Arthur J. (Law II)	D.C.
A.B. 1924, The George Washington University		Schofer, Harry N. (Law III)	
Sapp, Robert Asa (Law I)	Ga.	B.S. in C.E. 1920, The George Washington University	W.D.
*Sargeant, Julia Emily (Univ.)	D.C.	*Schofield, Edna Lane (Jun. 1)	D.C.
B.L. 1924, Syracuse University		Schofield, Helen Louise (Jun. 19)	D.C.
Sargent, William Hall (Col. 89)	N. Mex.	Schofield, William W. (Law III)	Md.
*Sarabay, Leon B. (Univ.)	D.C.	Schotlen, Dudley John (Law III)	
Sasorett, John Kramer (Jun. 22)	D.C.	LI. B. 1923, University of Michigan	D.C.
Saunders, Austin Carter, Jr. (Eng. 84)	D.C.	Schantz, Harry E. (Ed. 100)	D.C.
Saunders, Donald Hoad (Eng. 26)	D.C.	Schapmeyer, Clifford Schaff (Jun. 24)	D.C.
*Saunders, Dorothy Anna (Univ.)	D.C.	Schreiber, Arthur Harry (Jun. 22)	D.C.
Saunders, Earle Barker (Jun. 26)	D.C.	Schreiber, John Otto (Col., Univ.)	D.C.
Saunders, James Whiting (Col. 108)	Va.	Schreiner, Caroline Davis (Col. 72)	Md.
Saunders, Walton Norman (Jun. 11)	D.C.	Schreiner, Oswald, Jr. (Col. 82)	N.H.
*Savage, Francis Martin (Univ.)	D.C.	Schubert, H. Ellis William (Jun. 2)	N.H.
Savage, Robert Duval (Govt. 100)	Va.	*Schucker, John Alvin (Grad.)	
Savidge, Ralph Eugene (Jun. 15)	Ohio	B.S. 1920, The George Washington University	D.C.
Sawelle, Marlow Trimble (Jun. 27)	Md.	*Schroeder, Katharine Elizabeth (Grad.)	
*Sawyer, Howard (Jun. 1)	Calif.	B.S. 1921, Virginia State Teachers College	
Sawyer, Richard Leigh (Col., A.M.)	D.C.	A.M. 1922, The George Washington University	D.C.
B.S. 1922, The George Washington University		Schucker, Louis Ezra, Jr. (Law I)	W.D.
*Seales, Richard Davis (Univ.)	N.Y.	Schult, Verma May (Col. 21)	W.D.
Seatonday, George H. (Law I)	Idaho	*Schult, Verel Gladys (Col., A.M.)	Md.
B.B.A. 1921, University of Washington		A.B. 1927, University of Wisconsin	D.C.
Schaffer, Paul Samuel (Eng. 75)	Pa.	*Schultz, Gertrude Amelia (Jun. 10)	D.C.
Schaffert, Thomas Henry (Univ.)	D.C.	Schule, Constance Boverie (Jun. 20)	Md.
Schall, Clayton Milford (Med. IV)	Wash.	*Schuman, Leonard (Jun. 10)	
B.S. 1922, University of Washington		Schuler, Helen Anna (Univ.)	Kan.
Scharfstein, Karl (Eng. 1)	Ill.	B.S. 1927, Johns Hopkins University	
Scharringer, Anna (Jun. 67)	Md.	Schwab, Frank Wilbur (Col., A.M.)	
Schuch, Morris Jefferson (F.A. 132)	D.C.	B.S. 1922, The George Washington University	
Schudel, Otto (Ed. 100)	D.C.		
Schellenberg, Milton Alexander (Jun.)	D.C.		
Scherck, Bernard Louis (Jun. 2)	Wyo.		
*Scherck, Bernadine Agnes (Jun. 6)	Wyo.		



# Students Registered

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Schwab, Kathryn Elizabeth (Col. 52)	Nebr.	*Shaw, Philip (Ph.D.)	Va.
Schwartz, Joan (Jun. 52)	Ill.	Ph.D. 1925, The George Washington University	
Schwartz, Samuel (Law III)	Conn.	*Shapiro, Rose (Jan. 14)	D.C.
Schwartz, Sylvia Teresa (Ed. 191)	D.C.	Shapiro, Emma (Ph.D. 1912, Law III)	D.C.
Schwartzbaum, Elsie Susan (Jan. 40)	D.C.	A.B. 1911, The George Washington University	
Schwartz, Benjamin Klein (Col. 21, Law I)	D.C.	*Shapiro, Robert Keith (Eng. 34)	Wash.
Schwartz, George Hamilton (Univ.)	D.C.	Statistics, Econ. (Univ.)	N.Y.
Schubert, Anthony Joseph (Med. 2, II)	N.Y.	B.S. 1921, College of the City of New York	
A.B. 1911, St. John's College		Shaw, Robert (Jun. 45)	Md.
Schubert, Marcus Robert (Univ.)	Ind.	Shaw, Catherine Louise (Ph.D. A.M. 5)	Md.
Schubert, John (Univ.)	D.C.	A.B. 1911, The George Washington University	
Schubert, Catherine Howell (Univ.)	D.C.	Shaw, Edgar Monroe, II (Eng. 24)	D.C.
Schubert, Evelyn Lowell (Univ.)	D.C.	Shaw, Eugene Carter, Jr. (Col. 195)	D.C.
Schubert, James Madison (Col. 78)	D.C.	Shaw, Frances Alice (Jan. 17)	Nev.
Schubert, Patrick (Col. 41)	Mass.	Shaw, Joseph Lee (Col. A.M. 17)	D.C.
Schubert, Harry (Univ.)	Ill.	A.B. 1911, University of North Carolina	
Schubert, Isabel Sander (Col. 77)	D.C.	Shaw, Thomas Marion (Univ. 42)	Pa.
Schubert, Lerita Marcella (Jan. 14)	D.C.	Shaw, Russell Lyster (Jan. 52)	Va.
Schubert, Marion (Ed. 62)	Me.	Shaw, Samuel Haven (Med. I)	D.C.
Schubert, Francis (Col. 134)	D.C.	Shaw, John (Univ.)	D.C.
Schubert, Frank Edward (Law III)	D.C.	Shaw, Leo Patrick (Med. IV)	Pa.
A.B. 1911, The George Washington University		Schubert, Alice E. (A.M. 1)	Pa.
Schubert, John Wesley (Jun. 14)	D.C.	*Sheldahl, Virginia (Univ.)	D.C.
Schubert, Mabel Joy (Ed. 149)	D.C.	A.B. 1911, The George Washington University	
Schubert, Charles Barclay (Govt. 52)	Mass.	Sheldahl, Archie (Med. III)	N.Y.
Schubert, Elsie Marion (Jun. 23)	D.C.	A.B. 1911, The George Washington University	
Schubert, Virginia Elizabeth (Jun. 1)	D.C.	Sheldahl, John Slater (Eng. 62)	Md.
Schubert, Robert Krigley (Grad.)	D.C.	Sheldahl, Alice Collier (Law II)	D.C.
M.S. 1911, Fordham College	Ill.	A.B. 1911, The George Washington University	
Schubert, George Lafayette (Jun. 11)	D.C.	Sheldahl, Frederick DeWitt (Law III)	Mo.
Schubert, Muriel Childress (Law I)	D.C.	A.B. 1911, Dorey College	
A.B. 1911, Woman's College, Richmond, Va.		*Sheldahl, James Eli (Univ.)	D.C.
Schubert, Henry Liron (Univ.)	D.C.	A.B. 1911, University of Michigan	
Schubert, Dorothy Jeanette (Jun. 23)	Me.	Sheldahl, Joseph (Univ.)	Md.
Schubert, Arlo Baker (Col. 130)	Utah	Sheldahl, John Wackburn (Jan. 1)	D.C.
Schubert, Eva S. (Univ.)	Utah	Sheldahl, Donald J. (Law II)	Pa.
Schubert, Kerst Lorraine (Law III)	Utah	A.B. 1911, Ohio Wesleyan University	
Ph.D. 1911, Brigham Young University		A.M. 1911, American University	
Schubert, Emma Catherine (Jun. 15)	D.C.	Shelton, Helen Rebecca (Jun. 34)	D.C.
Schubert, Evelyn Marvin (Univ.)	D.C.	Shelton, Lorraine (Law I)	D.C.
Schubert, Margaret Alice (Univ.)	D.C.	Shelton, Raymond (Law I)	D.C.
Schubert, Carolyn Eastman (Col. A.M. 13)	D.C.	Shelton, Frederick J.S. (7)	Va.
A.B. 1911, The George Washington University		Shelton, Mary Catherine (Jan. 1)	D.C.
Schubert, Marion James (Law III)	Pa.	Shelton, Louis (Jan. 16)	D.C.
B.S. 1911, Johns Hopkins University		Shelton, Oscar (Univ.)	D.C.
Schubert, Joseph Jesse (Med. IV)	N.Y.	Shelton, Alice Mary (Ed. 82)	D.C.
A.B. 1911, The George Washington University		Shelton, James Hazel (Govt., A.M.)	Nebr.
Schubert, Morris Aaron (Jun.)	D.C.	A.B. 1911, The George Washington University	
Jan. 1911, (Jan. 34)	D.C.	Shelton, Lawrence Hetman (Ed. 61)	Okla.
A.B. 1911, Mount Holyoke College	Md.	Shelton, William Holley (Univ.)	N.Y.
Schubert, Jean Lynn (Ed. A.M. 6)	D.C.	Shelton, Russell Newton (Jun.)	D.C.
A.B. 1911, Westminster College	D.C.	Shelton, Sally (Ed. 73)	D.C.
Schubert, Dorothy Wile (Jun. 20)	D.C.	Shelton, Robert W. (Eng. 110)	D.C.
Schubert, Virginia Esther (Jan. 6)	D.C.	Shelton, Katherine Emma (Law I)	Ohio
Schubert, Robert E. (Law, LL.M.)	D.C.	A.B. 1911, Wellesley College	
Ph.D. 1911, L.L.B. 1921, University of Virginia	Ohio	Shoop, James Harrison (Jun. 63)	D.C.
Schubert, John I. (Med. III)	Ohio	Shoop, Violet Stuart (Univ.)	D.C.
A.B. 1911, Ohio Wesleyan University		Shoop, Anna (Univ.)	D.C.
Schubert, Arthur (Law III)	D.C.	Shoop, Frederick William (Univ.)	D.C.
Schubert, John (Hospkins University)	D.C.	Shoop, Betty Margaret (Jun. 24)	D.C.
Schubert, Beatrice (Jun.)	D.C.	Shoop, James Dallas (Jun. 21)	D.C.
Schubert, Frank (Med. I)	N.Y.	Shives, Vallora Lee (Jun. 6)	D.C.
A.B. 1911, The George Washington University			
Schubert, Harry Gerson (Eng. 39)	Md.		

Shoemaker, Eddis Louise (Jun. 30)	D.C.	Simmon, Glenn (Law II)	Okla.
†Shoemaker, Elsie Ruzicka (Col., A.M. 18)	D.C.	B.S. 1927, Oklahoma Agricultural and Mechanical College	
A.B. 1928, American University		Simmons, Bella A. Oliver (Jun. 95)	Va.
Shoemaker, William Henry (F.A. 70)	D.C.	Simmons, Ben Layton, jr. (F.A. 89)	N.C.
Shoemaker, William Summers (Eng. 104)	Md.	Simmons, James Stevens (Grad.)	D.C.
†Shoeman, Harry Meyer (Jun. 6)	Pa.	B.S. 1911, Davidson College	
†Shoens, James Wilson (Jun. 27)	Ala.	Simmons, Samuel William (Col., A.M.)	Va.
Shorey, John Charles (Ed., A.M.)	D.C.	B.S. 1911, Mississippi State College	
A.B. 1912, The George Washington University		Simmons, Victor Leonidas (Col., A.M. 30)	Md.
Shorts, Hallie Daniel (Grad.)	D.C.	B.S. 1926, Iowa State College	Va.
A.B. 1918, Allegheny College		Simon, Albert Christopher (Jun. 10)	N.Y.
A.M. 1927, Columbia University		Simon, Clarence (Jun. 22)	D.C.
Shostack, Robert (Jun. 87)	D.C.	Simon, Leon (Law II)	
Shostell, James Lewis (F.A. 61)	Va.	B.S. in Ch.E. 1929, University of Illinois	D.C.
Shost, Harry (Eng. 42)	D.C.	Simon, Melvin Martin (Jun.)	
†Shouse, John Henry (Law I)	Ky.	Simons, Richard Hamilton (Law III)	N.Dak.
Shoemaker, Fred H. (Jun. 47)	Iowa	Simons, Kasey Macleod (Med. IV)	Idaho
Shreehan, Hubert Francis (Med. III)	N.J.	A.B. 1928, The George Washington University	
†Shriver, Harry Clay (Law, Uncl.)	D.C.	Simson, Carol Louise (Ed. 112)	D.C.
Shrove, William Clay, jr. (Jun. 10)	D.C.	Simson, Donald James (Law II)	
†Shulman, Ethel (Ed. 96)	D.C.	B.S. in E.L. 1929, E.E. 1930, Northwestern University	
Shulman, Isadore (Med. III)	D.C.	Simson, Ellsworth Tenley (Law I)	Va.
A.B. 1911, The George Washington University		†Simson, Faust Young (Jun. 39)	Ky.
Shulman, Lillian Gertrude (Jun.)	D.C.	†Simson, Joseph B., jr. (Col. 66)	D.C.
Shumaker, Loch (Law II)	Ill.	Simson, Lynn (Jun.)	Va.
B.S. 1912, University of Illinois		†Simson, Mary Kirk (L.S., Uncl.)	Va.
†Shumate, Clate Virginia (Jun. 30)	D.C.	A.B. 1898, Grove City College	
Shupe, Reed Dalton (Med. IV)	Ariz.	A.M. 1920, The George Washington University	
Shutters, Malcolm Dais (Jun. 9)	D.C.	Sims, Charlie Peter (Jun. 45)	D.C.
Shutano, Anthony (Jun.)	N.J.	Simclair, Lee Dorice (Jun. 51)	S.Dak.
Sickler, Donald R. (Univ.)	D.C.	Simclair, Maurice Orion (Jun. 21)	Pa.
A.B. 1930, The George Washington University		Simclair, Theodore Beall (Phar. 92)	D.C.
†Sickler, Gerald Whitmore (Jun. 70)	D.C.	Simelstary, Marion (Univ.)	
Sidles, Donald Harry (Jun. 29)	Va.	Simkov, Abraham (Grad.)	
†Siebeck, Virginia (Ed. 111)	Wis.	B.S. 1927, College of the City of New York	
Sigg, Mildred Catherine (Jun. 45)	Pa.	A.M. 1929, Columbia University	Ind.
†Siegal, Sally (Jun.)	R.I.	Sipahi, Rushdan Nadi (Grad.)	
†Siegel, Benjamin (Eng. 71)	D.C.	A.B. 1911, A.M. 1912, The George Washington University	
†Siegel, Harold (Jun.)	Va.	†Sipkin, Chester (Jun. 39)	N.Y.
†Siegel, Harry (Jun.)	D.C.	Sisson, Anthony Vernon (Med. II)	D.C.
†Siegel, Victor (Col. 60, Med. I)	N.J.	†Sisson, Adele (Jun.)	Pa.
†Siegrist, Marie Louise (Col., A.M.)	D.C.	†Sissman, Louis Pasteur (Univ.)	Okla.
A.B. 1913, The George Washington University		B.S. 1928, University of Chicago	
Sifford, Robert Harris (Grad.)	Ill.	Sirtler, Margaret Lucile (Univ.)	
A.B. 1911, M.S. 1913, University of Illinois		A.B. 1928, Warrensburg College	Pa.
Sigler, Wendell Prugh (Law I)	Md.	A.M. 1912, Ohio State University	
A.B. 1920, Dartmouth College		Sitton, Floyd W. (Law II)	N.Y.
Sk, Alver Emanuel (Jun. 3)	D.C.	A.B. 1928, Simmons University	
Skies, Ena Louise (Jun. 16)	D.C.	†Sithcy, George Lawton (Ed., A.M. 18)	D.C.
†Silber, Mary Sophia (Jun. 43)	D.C.	A.B. 1928, American University	
Siler, Aldine Kieffer, jr. (Law III)	Pa.	Sizzo, Joseph Alexander (Col. 84)	Cal.
†Sillin, Emily Annora (Law)	Md.	Skelly, John E. (Med. III)	Va.
A.B. 1922, Western Maryland College		Skellom, Hetty Anna (Jun. Uncl.)	Pa.
Silbigs, Norval Earle (Jun.)	D.C.	†Skellom, Joseph (Jun. 2)	D.C.
†Silva, Juan (Univ.)	P.R.	Skinker, Doris (Jun. 23)	D.C.
B.P.S. 1911, American University		Skinker, Mary Scott (Grad.)	
Silver, Cecelia (Jun. 12)	D.C.	B.S. 1922, A.M. 1923, Columbia University	Md.
†Silverman, Charles Colman (Jun. 20)	D.C.	†Slaird, Walter John (Jun. 72)	D.C.
Silverman, Israel (Law II)	D.C.	†Slaughter, Thomas Foster, jr. (Jun. 31)	Kan.
A.B. 1912, The George Washington University		†Stevens, Nellie Maud (Jun. 15)	Tenn.
Silverman, Myer (Jun. 51)	N.Y.	†Shan, Carney (Univ.)	Ind.
†Silverman, Miriam Gladys (Jun.)	D.C.	Shcom, Glenn G. (Grad.)	
Silverman, Morris (Med. IV)	D.C.	A.B. 1928, Simpson College	D.C.
A.B. 1920, The George Washington University		M.S. 1930, Iowa State College	D.C.
Silverman, Sarah (Jun. 61)	D.C.	Small, Clarence Fisher (Eng. 25)	D.C.
Sime, Robert McCormick (Eng. 29)	D.C.	Smalley, Henry Sonna (Govt. 66)	
		Smalwood, Marvel Douglas (Ed. 104)	

# Students Registered

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Smart, Thomas (Jun. 42)		Smith, Paul Emerson (Jun. 30)	
Smart, Raymond S. (Law II)	Okla.	Smith, Raymond Sherman (Law I)	Md.
B.S. 1919, Harvard University	Mass.	Smith, Reginald Frank (Law III)	Okla.
Smolin, Victor Edward (Med. II)	D.C.	Ch. F. 1922, Lehigh University	Pa.
Smith, A. Leonard (Jun. 47)	Pa.	Smith, Robert Olin (Jun. 24)	D.C.
Smith, Austin William (Law I)	N.Y.	Smith, Teresa Elizabeth (Jun. 9)	D.C.
Smith, Baxter (Eng. 148)	D.C.	Smith, Walter Barrett (Law II)	Va.
Smith, Bert Page (Jun. 8)	D.C.	A.B. 1921, College of William and Mary	
Smith, Berta May (Law II)	Pa.	Smith, Walter (Chabon) (Jun.)	Md.
A.B. 1921, Goucher College		Smith, Walter Irvine (Grad.)	D.C.
Smith, Bess Elizabeth (Jun. 18)	D.C.	A.B. 1911, Union College	
Smith, Betty Virginia (Jun. 6)	Va.	A.M. 1917, Western College	
Smith, C. Ronald (Med. II)	Utah	Smith, William Abbott (Eng. 36)	D.C.
B.S. 1929, Utah State Agricultural College		Smith, W. Stewart (Jun. 1)	Tex.
Smith, Carl Harrison, Jr. (Eng. 16)	W.Va.	B.S. 1928, North Texas State Teachers College	
Smith, Carlton, Francis (Jun. Uncl.)	Conn.	Smitskamp, Gerhard Frederick (Jun. 21)	D.C.
Smith, Carroll Newton (Col., A.M. 3)	D.C.	Smoot, Charles Elmer (Law II)	Pa.
A.B. 1922, The George Washington University		Smoot, Henry Kenneth (Col., A.M.)	D.C.
Smith, Clara Hertz (Jun.)	D.C.	A.B. 1931, The George Washington University	
Smith, Clyde William (Jun. 35)	Ill.	Smoot, Margaret Ward (Univ.)	D.C.
Smith, DeWitt C. (Grad.)	Utah	A.B. 1927, University of Richmond	
B.S. 1929, Utah State Agricultural College		Smoot, Hazel Sarah (Univ.)	Wash.
Smith, Dorothy Fisher (Govt. 78)	Va.	†Smoot, Edward Albert (Phar.)	D.C.
Smith, Dorothy Marie (Univ.)	D.C.	Ph.D. 1922, The George Washington University	
Smith, Dorothy Maule (Ed. 70)	Va.	Smoot, D. Verner (Law II)	Ill.
Smith, Dorothy Milne (Ed., A.M. 15)	D.C.	M.F. 1928, Cornell University	
A.B. 1922, The George Washington University		†Smoot, Cray (Law)	D.C.
Smith, Dorothy Olive (Jun. 55)	D.C.	Smoot, Marvin Myles (Jun. 19)	Mo.
Smith, Leeton (Univ.)	Va.	Smoot, Myrah Levern (Law I)	Mo.
Smith, Leaton Virginia (L.S. 101)	Md.	Smoot, Chester Weeman (Univ.)	D.C.
Smith, Elizabeth Newson (Ed. 28)	D.C.	†Smoot, R. Dale (Law II)	Univ.
Smith, F. Willis (Med. I)	N.J.	Smoot, Richard H. (Jun. 65)	Mass.
Smith, Frances Wilbur (Jun.)	D.C.	†Snowden, Lora Wynn (Jun. 26)	D.C.
Smith, Gertrude Bain (Ed. 119)	D.C.	Smoot, Anne (Law III)	Md.
Smith, Gerry R. (Jun. 70)	D.C.	A.B. 1928, The George Washington University	
Smith, H. Albert (Law I)	Mo.	Smute, Robert Turner (Jun. 19)	Md.
Smith, Harry Leroy (Col., A.M. 6)	Ill.	Smute, Albert Ralph (Law II)	D.C.
B.S. 1925, Georgetown University		Smute, Carolyn Hannah (Med. III)	D.C.
Smith, Howard Chester (Jun. 59)	D.C.	A.B. 1931, The George Washington University	
Smith, Hugh Chapin (Jun. 18)	D.C.	Smute, Henry S. (Law II)	D.C.
Smith, Hugh Stewart (Grad.)	D.C.	Smute, James Leslie (Med. IV)	Wash.
B.S. 1924, Northwestern University		B.S. 1928, M.S. 1929, University of Washington	
A.M. 1922, The George Washington University		Smute, Lloyd X. (Eng. 22)	Ind.
Smith, James (Jun. 48)	Mo.	Snyder, Luther Henry (Med. II)	D.C.
Smith, James Salmon (Law I)	Utah	A.B. 1911, Georgetown College	
B.S. 1929, Utah State Agricultural College		Snyder, Samuel Simon (Jun. 42)	D.C.
Smith, James William (Jun.)	D.C.	Solheim, Inge (Univ.)	P.R.
Smith, John Beverly (Med. I)	D.C.	†Solomon, Samuel Slater (Jun. 29)	D.C.
Smith, John Lora (Jun. 9)	Ohio	Solt, Samuel James (Eng. 1)	D.C.
Smith, John Wallace (Law II)	Ohio	Somere, Charles Irving (Med. IV)	Md.
Smith, James Nelson (Col. 62)	D.C.	A.B. 1929, St. John's College	
L.L.B. 1921, L.L.M. 1923, Georgetown University		†Sommer, Lucile Stanley (Col. 28)	Mo.
Smith, Joseph Clarence (Jun.)	Mont.	Somperston, Powell Lawrence (Jun. 28)	Okla.
Smith, Kenneth Gerry (Jun. 49)	N.H.	Somperston, Walter Alexander (Jun. 16)	D.C.
Smith, Lester Allan (L.S., A.M.)	Okla.	Somser, Thomas G. (Univ.)	Conn.
A.B. 1922, The George Washington University		†Sommerstein, Alice Augusta (Jun. 14)	D.C.
Smith, Loran (Univ.)	D.C.	Sorrell, William George (Med. I)	Va.
Smith, Marian Ivona (Ed., A.M. 9)	D.C.	Souders, John Ernest (Eng. 1)	Okla.
B.S. 1922, Harrisonburg State Teachers College		Souders, Clarence Vernal (Univ.)	N.J.
Smith, Marie Annabelle (Jun. 14)	Va.	Spachowsky, Ralph (Jun. 40)	D.C.
Smith, Mary Elizabeth (Ed. 113)	D.C.	Spahr, Edna Mildred (Jun. 21)	Pa.
Smith, Mary Hale (Jun. 59)	Tenn.	Spangler, George Wilt (Law III)	
Smith, Mary P. (L.S. 100)	W.Va.	A.B. 1927, The George Washington University	
Smith, McLean (Jun.)	Va.	Spangler, Mary C. (Ed. 94)	D.C.
Smith, Myrtle Wilson (Col. 70)	Okla.		



Spang, Edward Romualdo (F.A., Uncl.)	D.C.	Staub, Virginia Reese (Ed. 88)	D.C.
A.B. 1932, The George Washington University		Staubly, Alan MacLean (Eng. 88)	D.C.
†Sparks, Ann Regina (Jun.)	D.C.	Stauder, David Rinehart (Law I)	D.C.
Sparks, Floyd L. (Col. 52)	S. Dak.	Stauder, Patricia Chokey (Jun. 61)	N.Y.
Sparks, Neal Washington (F.A. 70)	Wyo.	†Strain, Joseph I. (Univ.)	
Spasoff, Beatrice Virginia (Jun. 42)	Calif.	B.S. 1928, College of the City of New York	
Spasoff, John (Law II)	Calif.	Stearns, Clifford Robert (Col., A.M. 4)	D.C.
B.S. in F.E. 1929, The George Washington University		A.B. 1932, The George Washington University	
Spaulding, Edith Linot (Jun. 34)	Va.	†Stearns, Lydia Marie (Ed. 97)	D.C.
Spector, Lillian Rena (Ed. 104)	D.C.	†Steele, James Bartell (Jun. 48)	Md.
†Spector, Mary Libby (Jun.)	D.C.	Steele, John Winton (Law II)	Idaho
Spoet, Hugh W. (Col., A.M. 25)	Kans.	Steele, Judith Leroy (Ed., A.M.)	D.C.
Spooden, Charlotte Louise (Col. 72)	D.C.	A.B. 1930, The George Washington University	
Spooden, Gertrude C. (Col., A.M. 12)	Md.	Seegeman, Bert Madison (Univ.)	Calif.
A.B. 1922, University of Maryland		Seelman, Floyd Smiley (Jun.)	Va.
†Spoolin, Margaret (Col. 192)	N.C.	Seelman, John Harold (Col., A.M. 18)	
Spoolman, Kathleen (Eng. 97)	D.C.	A.B. 1930, The George Washington University	
Spoolman, Mary Virginia (Jun.)	Va.	Sehman, Vernon Andrew (Jun.)	Va.
†Spencer, John McClurken (F.A. 53)	Va.	Sein, Arthur Henry (Jun.)	D.C.
†Spencer, Vera M. (Ed. 48)	D.C.	†Sein, Carrie M. (Jun. 14)	S. Dak.
Spencer, David Crisman (Law II)	Utah	Sein, Colman Beag (Law II)	Md.
A.B. 1934, University of Utah		Sein, Jane Louise (Jun. 25)	Md.
Spencer, Roland Browning (Jun.)	Pa.	Sein, Marjorie Hargreaves (Jun.)	Calif.
Sperry, Elsie Francis (Jun. 41)	Ill.	Straberg, Abe Henry (Med. II)	
†Sperry, Josephine (Ed., A.M. 15)	D.C.	B.S. 1931, University of Toledo	N.Y.
B.S. 1932, The George Washington University		Steiner, Alexander Warman (Law I)	D.C.
Spicknall, Charles G. (Med. I)	Md.	Steiner, Edward Thomas (Jun. 57)	D.C.
Spickman, William Paul (Law II)	D.C.	Steiner, Sylvan Adolph (Jun. 46)	D.C.
A.B. 1934, The George Washington University		Stimmer, Josephine Janet (Jun. 18)	D.C.
Spigund, Christine Elizabeth (Col. 99)	D.C.	†Stephens, Eugene A. (Univ.)	Md.
Spinks, Alvin Whitlock (Eng. 31)	Md.	Stephens, Hazel V. (Univ.)	D.C.
Spinks, Mary Katherine (Jun.)	D.C.	Stephens, Francis Devaux (Law II)	
Spitfire, Michael William (Med. I)	N.J.	B.S. 1930, University of Maryland	D.C.
B.S. 1933, The George Washington University		†Stephenson, William I. (Eng. 100)	D.C.
Spivak, Joseph Harry (Law I)	Conn.	Stapler, Harold Gordon (Jun. 37)	D.C.
Spissler, Lenora Marie (Univ.)	D.C.	Stetson, Margaret Boyd (Col., A.M. 28)	D.C.
Spomer, Beth (Law I)	Kans.	A.B. 1935, The George Washington University	
Spurgent, Mary (Med. II)	N.Y.	Stettin, Allen Wesley (Jun. 12)	Va.
A.B. 1930, University of Alabama		†Stettin, Gordon (Col. 74)	D.C.
M.S. 1932, New York University		†Stevens, Chase Swain (Col. 121)	Md.
†Springston, Daniel Perry (Jun. 7)	D.C.	Stevens, Dorothy Kathryn (Ed. 101)	D.C.
Spritzel, Theodore David (Med. III)	N.J.	Stevens, Fred Leonard (Jun. 18)	D.C.
B.S. 1929, M.S. 1930, Rutgers University		Stevens, Henry (Grad.)	
Springbank, Helen Elna (Ed. 48)	D.C.	B.S. 1921, M.S. 1923, University of Wisconsin	D.C.
Stahler, Frances Miller (Jun. 32)	D.C.	Stevens, Marion E. (Univ.)	N.Y.
†Stacy, John Albert (Jun. 50)	D.C.	Stevens, Wesley Reed (Col., A.M. 2)	
Stadler, Mary Alice (Col. 64)	D.C.	A.B. 1930, The George Washington University	
Stafford, Elizabeth Rowan (Univ.)	D.C.	Stevenson, Frank Vernon (Jun.)	Md.
B. Ed. 1929, Columbia University		Stevenson, Fred Charles (Govt. 64)	N.Y.
Stafford, Lawrence Egbert (Col., A.M. 18)	D.C.	Stevenson, John Albert (r. Eng.)	D.C.
A.B. 1926, University of Minnesota		Stevenson, Leland E. (Med. III)	Calif.
†Stacey, Cecil Edward (Univ.)	S. Dak.	Stevenson, Walter Kermit (Jun. 23)	D.C.
Stam, Leon (Eng. 28)	N.Y.	Stevenson, Edward Christian (Jun. 43)	D.C.
Stam, Lillian Roberts (L.S., Uncl.)	Md.	Stevenson, Fredric Walter (Col. 87)	D.C.
A.B. 1928, The George Washington University		Stewart, George Emory (Law I)	D.C.
Stamm, Marianne Valerie (Col. 64)	D.C.	Stewart, Kermit (Jun. 37)	D.C.
†Stanley, Joseph Hyman (Univ.)	La.	Stewart, Layton A. (Ed. 100)	D.C.
†Stanley, Raymond F. (Eng. 43)	Fla.	Stewart, Robert Kerrie (Jun.)	D.C.
Stanley, William S. (Law I)	D.C.	Stickley, Vernon Baker (Jun., Uncl.)	D.C.
A.B. 1934, The George Washington University		†Stier, Charles Fredrick (Univ.)	D.C.
†Stant, Aaronson Elwood (Eng. 16)	D.C.	Stimson, Jesse LeRoy (Jun. 55)	D.C.
Stanton, Alfred Hodge (Med. I)	Md.	Stewart, Margaret Elizabeth (Jun. 64)	D.C.
Stanton, Henry Edmund (Col., A.M.)	Md.	†Stutz, Ruby (Univ.)	Md.
B.S. 1933, The George Washington University		Stockmann, Leroy Leonard (Univ.)	D.C.
Stanton, Katherine M. (Jun. 70)	Md.	Stoffberg, Charles (Col. 94)	D.C.
†Stark, Nancy (Univ.)	D.C.	†Stollman, Myron Adele (Univ.)	D.C.
		Stokes, Louise Virginia (Col. 115)	D.C.

# Students Registered

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Stolar, Myer Harold (Jun 47)	D.C.	Sugar, Samuel Jacob (Jun 18)	D.C.
Stone, Charles Parker (Law II)	D.C.	B.S. 1911, The George Washington University	
A.B. 1914, Yale University		Sulke, Dora Betta (Univ.)	D.C.
Stone, Clyde (Jun 1)	Tenn.	*Sullivan, Anne Erasmus (Ed., A.M. 16)	Iowa
Stone, Franklin Martin (Law II)	Minn.	A.B. 1911, The George Washington University	
Stone, George Washington (Univ.)	Md.	Sullivan, Clara Parker (Grad.)	Md.
A.B. 1910, Dartmouth College		B.S. 1911, Brown College	
A.M. 1911, Harvard University	Va.	A.M. 1917, The George Washington University	
Stone, Gordon Oliver (Jun 84)	D.C.	Sullivan, Edwin Kemper (Eng.)	D.C.
Stone, Mathiaser Werts (Univ.)	D.C.	Sullivan, Eugene Joseph (Eng. 71)	Conn.
Stone, Warren Sanford (Univ.)	D.C.	Sullivan, Gordon Hamilton (Jun 72)	S. Dak.
Stoner, George B. (Law, I.L.M.)	D.C.	Sullivan, Marie Elizabeth (Col. 120)	N.Y.
A.B. 1917, LL.B. 1918, Yale University		Sullivan, Mary Carmel (Col. A.M. 18)	D.C.
Stoner, Mahol McLoughlin (Col. 114)	D.C.	A.B. 1911, The George Washington University	
A.B. 1916, Irving College		Sullivan, Norbert Paul (Med. III)	N.Y.
Storer, Rachel Mae (Col. A.M.)	Oreg.	B.S. 1911, New York University	
B.S. 1917, University of Oregon		Sullivan, Richard L. (Med. II)	D.C.
Storley, Arthur (Col. 191)	D.C.	*Sullivan, Robert Percy (Univ.)	Me.
Storley, Maude Elizabeth (Univ.)	D.C.	Sullivan, Verne Raymond (Eng. 111)	Wis.
Storley, Virginia Helen (Jun 41)	D.C.	Sullivan, Vincent Lee (Jun 12)	D.C.
Storley, George Beaton (Jun 9)	D.C.	Summers, Catherine Snowden (Col. A.M.)	Va.
Storley, E. Magister (Col. 202)	Ind.	A.B. 1911, The George Washington University	
Storley, Amanda Louise (Univ.)	Conn.	*Summers, Vaughn Wathen (Law II)	Ill.
B.S. 1911, M.D. 1917, Johns Hopkins University		Sunday, Helen Christina (Jun 12)	D.C.
Storley, John Lewis (Law III)	Pa.	*Sunderworth, Lester A. (Jun 42)	Colo.
Storley, Sanford Henry (Univ.)	D.C.	Susmel, Anna (Univ. 1911)	Wash.
Storley, John M. (Col. 60)	D.C.	B.S. 1914, M.S. 1911, University of Washington	
Stratford, Everett Leonard (Jun 10)	D.C.	Sutcliffe, Alfred John (Med. I)	D.C.
Straw, Albert James (Jun 71)	Minn.	Suter, Gilbert (Jun 1)	Md.
Straw, Claudia (Col. A.M. 81)	D.C.	Suter, James Matson (Med. III)	D.C.
A.B. 1911, The George Washington University	Tex.	A.B. 1911, The George Washington University	
Straw, Frances Henry (Jun 11)	Pa.	*Sutton, Emma Roxane (Jun 1)	D.C.
Straw, John Ellsworth (Jun 54)	D.C.	Sutton, Martha Emma (Jun 41)	Va.
Straw, Ruby Denver (Ed. 41)	Oreg.	*Swain, Esther Melle (Law 1)	Mich.
Straw, Gilbert Carlyle (Jun 60)	D.C.	A.B. 1911, A.M. 1911, The George Washington University	
Straw, Thomas Fulton (Jun. 12)	D.C.	Swan, Irene Frances (Jun 51)	D.C.
Straw, Horace Joseph (Jun 6)	Pa.	Swanson, Carl Helmer (Eng. 26)	D.C.
Straw, Grace Douglas (Univ.)	D.C.	Swanson, Harold A. (Law II)	Mass.
B.S. 1917, University of Virginia		B.Ch.E. 1911, Northwestern University	
Strubel, Ruth (Ed. 118)	D.C.	Swanson, Verne Clifford (Eng. Uncl.)	Md.
Strube, Mary Margaret (Jun 1)	D.C.	B.S. 1911, University of Illinois	
Strube, Katherine G. (Ed. A.M. 6)	D.C.	Swazey, John McFarland (Jun 60)	Kans.
A.B. 1914, Wesley College	Md.	*Swezey, Fay Hattie (Univ.)	D.C.
Strube, Rose Margaret (Ed. 122)	D.C.	B.S. in E.E. 1925, Washington State College	
Strub, Dorothy Grace (Jun 15)	D.C.	M.S. in E.E. 1922, University of Washington	
Strub, Harold W. (Law III)	Pa.	Sweeney, Mahol Anne (Jun 42)	Va.
Strub, Pennsylvania State College		Sweeney, Charles Amos (Law II)	Ohio
B.S. 1915, Johns Col. A.M. 41	Va.	Sweeney, Edna C. (Col. A.M. 15)	Minn.
Strub, Virginia Polytechnic Institute		A.B. 1917, Northland College	
Strub, Neil Francis (Law III)	Ohio	Swenson, Helene Marie Fischer (Jun 1)	Va.
Strub, William Burton (Jun 34)	Pa.	Swick, Emma Robt (Jun 1)	Md.
Strub, Harold L. (Law II)	Ind.	Swick, Helen Margaret (Col. 120)	Md.
B.S. in E.E. 1925, Purdue University		*Swindler, Arthur Francis (Law II)	D.C.
Strub, Janet Courtney (Jun 37)	Va.	Swindler, James Fisher (Col. 78)	D.C.
A.B. 1912, The George Washington University	Calif.	Swinton, Allan Claxton (Jun 24)	Md.
Strub, Edna L. (Univ.)	Ind.	Swinton, Lester Maurice (Law I)	D.C.
A.B. 1912, The George Washington University		B.S. in M.E. 1911, The George Washington University	
Strub, Frank August (Ed. A.M.)	D.C.	Swire, Edwin Lane (Jun 42)	N.Mex.
B.S. 1911, Letts University		Swire, Herbert Philip (Jun 12)	D.C.
Strub, James Wesley (Grad.)	Miss.	Swire, Helen (Col. A.M. 18)	D.C.
B.S. 1915, Mississippi Agricultural and Mechanical College		B.S. 1927, Winthrop College	
A.M. 1916, The George Washington University			
Strub, Timothy C. (Med. III)	Ecuador		
A.B. 1911, The George Washington University			







Von der Brugg, Henry John (Eng.)	Mo.	Walter, Paul Bradbury (Law II)	Pa.
Von Lewinski, Roy Karl (Law, Uncl.)	D.C.	B.S. 1925, Dartmouth College	Va.
Voss, John, William (Eng.) (Uncl.)	D.C.	Walter, Raymond Bryan (Ena. 21)	Pa.
Wagner, Laura (Law, Univ.)	D.C.	*Walter, Albert (Ena. 11) (A.M. 14)	D.C.
A.B. 1922, Georgetown College		B.S. 1927, Washington College	
Washington, John Ross (Jun. 30)	N.Y.	Walters, George Polhem (Uncl.)	
Washington, Andrew Dennis (Jun. 14)	Va.	B.S. 1911, M.A. 1912, The George Washington University	Can.
Wassman, Clarence Earle (Ed. 145)	D.C.	*Walt, Harold Mansfield (F.A., A.M.)	Chi.
		C.E. 1928, Rensselaer Polytechnic Institute	
W		Waring, Sherman Richard (Univ.)	
*Walt, Bernard Irwin (Univ.)	D.C.	B.S. 1929, Massachusetts Institute of Technology	Chi.
*Walt, Charles (Col. 112)	D.C.	M.A. 1929, Harvard University	
Ward, William Edworth (Jun. 76)	Mt.	Wang, Yui Tsun (Uncl.)	
*Wagner, Helen Louise (Univ.)	D.C.	B.S. 1928, Central University, China	
*Wagner, Mary Gertrude (Univ.)	D.C.	A.M. 1921, University of Southern California	
Wagner, Thomas William (Ena. 31)	Tex.	Ward, Ralph Page (Law I)	D.C.
Wagner, William Frederick (Univ.)	D.C.	Ward, Carol Frances (Col. 60)	D.C.
*Wainwright, Catherine Angelyn (Ed. 64)	D.C.	Ward, Marjorie Rupert (Jun.)	D.C.
*Wainwright, Margaret Florence (Law III)	Ill.	Ward, Chester Charles (Law II)	
Waick, Earl C. (Law II)	Pa.	B.S. 1931, Georgetown University	Wash.
A.B. 1922, The George Washington University		Ward, George Edward (Col., A.M. 16)	
Waidman, Abner William (Jun. 21)	D.C.	B.S. 1920, State College of Washington	D.C.
Waldman, Jacob (Law II)	Pa.	Ward, Theodore (Jun.)	Mt.
A.B. 1920, University of Pennsylvania		Ward, Eugene Frederick (Ed. 64)	D.C.
Waldman, Edward August (Jun. 24)	Mt.	Ward, Eugene (Uncl.)	D.C.
Waldman, Carl (Univ.)	D.C.	Ward, Marion Jean (Jun. 18)	Pa.
A.B. 1924, The George Washington University		Ward, Albert Roy (Jun. 14)	Pa.
*Wadsworth, Paul Henry (Eng.)	Va.	*Ward, Charles Frederick (Univ.)	Mt.
Walker, Alexander McDuff (Govt. 122)	N.C.	Ward, Jack Felix (Jun. 23)	D.C.
*Walker, Andrew Allyn (Univ.)	Okla.	Ward, Ruth (Col. 61)	Pa.
Walker, Catherine Evelyn (Col. 101)	Mt.	Ward, Katherine Agnes (Jun. 16)	
*Walker, D. Merle (Law II)	Kans.	Ward, Mary Elizabeth (Col. A.M.)	
B.S. 1926, Kansas State Teachers College		A.B. 1914, The George Washington University	Va.
Walker, Edgar Foster (Eng. 124)	Pa.	Washburn, Ivan Wuchter (Eng. 140)	D.C.
Walker, Evelyn (Col. 81)	D.C.	Wassmann, Katherine Mary (Ed. 99)	Tenn.
Walker, Helen (Col. 80)	D.C.	Waterhouse, Robert Carmack (Law II)	
*Walker, Henry Frederick (Jun. 2)	Va.	B.S. 1911, Carnegie Institute of Technology	
*Walker, Lawrence Charles (Ed., E.D.)	D.C.	*Watson, Allen Van Aerle (Jun.)	D.C.
A.B. 1921, A.M. 1922, The George Washington University		Watson, Helen Margaret (Jun. 12)	D.C.
Walker, Ernst (Col., A.M. 191)	Utah	Watson, Kathleen (Ed. 13)	D.C.
A.B. 1925, University of Utah		Watson, Kenneth Campbell (Law I)	
*Walker, Ernst (P.A., Uncl.)	Kans.	A.B. 1922, The George Washington University	Can.
B.S. 1911, Kansas State Agricultural College		Watson, Louise Leonard (Ed. 190)	Mt.
Walker, Sam Hamilton (Jun. 7)	D.C.	Watson, Mary Lee (Ed. 100)	N.C.
Walker, Walter K. (Law III)	Utah	Watson, Leonard Adams (Col., A.M. 12)	
Wall, David (Jun. 14)	D.C.	Watson, The George Washington University	
Wallace, George David (Law III)	D.C.	A.B. 1926, The George Washington University	Mt.
Graduate 1925, U. S. Naval Academy		Watson, Anna Jane (Jun. 12)	Mt.
Wallace, James David (Univ.)	D.C.	Watson, Alice (Uncl.)	Mt.
A.B. 1925, A.M. 1927, University of Missouri		Watson, Quentin (Uncl.)	D.C.
*Wallace, Mary Louise (Univ.)	N.H.	Watson, Quentin (Uncl.)	D.C.
Wallace, Robert (Univ.)	D.C.	Watson, Florence (Uncl.)	Mt.
Wallace, Philip David (Law III)	Ind.	*Watson, Murray William (A.M.)	
*Wallace, Joe Benjamin (Univ.)	Wash.	Watson, Robert William (A.M.)	
Wallace, Robert (Uncl.)	N.I.	A.B. 1924, A.M. 1924, University of Mississippi	D.C.
Wallace, Thomas Edmund (Eng. 14)	D.C.	Watson, Julia Eleanor (Ed. 120)	Va.
Wallace, Thomas Edgar (Col., A.M. 17)	D.C.	Watson, Anne Ruth (Jun. 12)	Pa.
A.B. 1922, The George Washington University		Watson, John (Uncl.)	D.C.
Wallace, John Anthony (Jun. 28)	Mo.	Watson, Benjamin (Uncl.)	Pa.
Wallace, Clara Marion (Jun. 57)	D.C.	Watson, John (Uncl.)	Pa.
*Wallace, Gertrude (Univ.)	D.C.	A.B. 1924, College of William and Mary	D.C.
A.B. 1922, A.M. 1924, The George Washington University		*Watson, Kenneth (Uncl.)	D.C.
*Wallace, Lawrence George (Col., A.M.)	D.C.	Watson, Kenneth (Uncl.)	D.C.
B.S. 1911, The George Washington University		Watson, Ruth (Uncl.)	D.C.
		Watson, Charles (Uncl.)	D.C.
		Weber, Harry Fredrick (Col. 75)	

Webster, Macbeth Young (Univ.)	Tenn.	Wheaton, Phyllis Lucile (Col. 93)	N.Y.
Webster, George, Jr. (Univ.)	D.C.	Wheeler, Catherine (Jun. 27)	Md.
Webster, Louise Amelia (Univ.)	N.Y.	Wheeler, Edward Kendall (Jun. 28)	Mont.
Webster, Marston Parker (Col. 92)	D.C.	Wheeler, Elizabeth Hale (Col. 92)	Mont.
Webster, Abraham Nathan (Jun. 55)	D.C.	Wheeler, Emma N. (Univ.)	Mich.
Webster, Phoebe Allen (Jun. 57)	D.C.	Wheeler, Nan E. (Univ.)	Md.
Webster, John William (Jun. 42)	D.C.	Wheeler, Nancy Patricia (Jun. 20)	Pa.
Webster, Ruth Evelyn (Col. 92)	D.C.	Wheeler, William (Jun. 21)	Md.
Webster, Norman James (Med. IV)	D.C.	Wheeler, M. F. (Univ.)	Iowa
Webster, Harold James (Univ.)	Tex.	Wheeler, Virginia A. (Col. A.M. 12)	Va.
Webster, Virgil James (Univ.)	Va.	A.B. 1922, The George Washington University	
Webster, Abraham (Jun. 5)	D.C.	Whitaker, Geraldine (Jun. 28)	D.C.
Webster, Joseph Harry (Law II)	D.C.	Whitcomb, Louise Storm (Grad.)	D.C.
Webster, Adeline Graham (Law I)	Md.	B.S. 1918, A.M. 1918, Columbia University	
Webster, Irvine (Med. II)	N.Y.	Whitcomb, Frances Mae (Jun. 1)	D.C.
B.S. 1917, College of the City of New York		White, Carol Evelyn (Univ.)	Tex.
Weinstein, Samuel (Univ.)	D.C.	A.B. 1922, The George Washington University	
Ph.D. 1925, The George Washington University		A.M. 1921, The George Washington University	
Weintraub, Robert Louis (Col. A.M. 25, Grad.)	D.C.	White, Dean Warner (Law I)	N.Y.
B.S. 1921, A.M. 1925, The George Washington University		A.B. 1921, Agriculture College	
Weintraub, William (Univ.)	W.Va.	White, George Douglas (Col. Uncl.)	D.C.
Wells, Warren Harold (Jun. 41)	D.C.	White, Grace A. (Law II)	Ohio
Wells, Frank Harvey (Law II)	D.C.	A.B. 1921, The George Washington University	
A.B. 1921, The George Washington University		White, Harold (Jun. 27)	D.C.
Wells, John Calvert (Col. 92)	Pa.	White, Helen James (Jun. 28)	D.C.
Wells, Margaret Catherine (Med. III)	D.C.	White, Helen Margaret (Univ.)	D.C.
A.B. 1921, The George Washington University		A.B. 1921, A.M. 1924, The George Washington University	
Wells, John Roger (Law II)	Pa.	White, Madeline Louise (L.S., Uncl.)	Miss.
B.S. 1921, Lafayette College		A.B. 1921, Mississippi State College for Women	
Wells, Lillian Katherine (Jun. 18)	Ga.	White, Mary Emma (Univ.)	D.C.
Wells, Barbara Blacklock (Jun. 21)	D.C.	White, Percy Albert (Jun. 27)	Iowa
Wells, George W. (Univ. 78)	W.Va.	White, Robert M. (Law I)	Md.
Wells, William James (Univ. 4)	D.C.	A.B. 1921, University of Maryland	Va.
Wells, William Van Horn (Eng. 48)	Va.	White, Ruth Owen (S.S. 24)	D.C.
Wells, Charles F. A. (A.M. 27)	D.C.	White, Samuel Howard (Jun. 1)	Mich.
A.B. 1922, The George Washington University		White, Norman William (Law II)	
Werner, Ethel Winifred (Col. 96)	Kent.	B.S. 1921, The George Washington University	Tex.
Werner, John George (Grad. 22)	N.J.	White, Robert M. (L.S., Uncl.)	
Werkman, S. Nov. (L.S. 114)	D.C.	A.B. 1922, Howard College	
Wetzel, Ernest Julius (Law II)	Ill.	White, Robert M. (L.S., Uncl.)	Colo.
M.E. 1921, Cornell University		A.B. 1921, The George Washington University	
Werner, Marie King (L.S. 74)	D.C.	Whitman, Thomas Moore (Univ.)	Del.
Werner, Ralph Arthur (Eng., Uncl.)	Va.	B.S. 1921, University of Delaware	
Werner, Ralph Norman (L.S.)	D.C.	Whitman, Hazel Selma (Univ.)	D.C.
Werner, Hugh Slater (Law II)	D.C.	Whitman, John W. (Jun. 28)	D.C.
B.S. in E.E. 1920, The George Washington University		Whitman, Robert Davis (Jun., Uncl.)	Ark.
M.S. in E.E. 1921, Massachusetts Institute of Technology		Whitman, Jane Alice (Jun. 22)	D.C.
Werner, James Blake (Jun. 47)	D.C.	Whitman, Donald N. (Jun. 27)	D.C.
Wess, Katherine Elizabeth (Jun. 31)	D.C.	Whitman, Charles James (Univ.)	Vt.
Wess, Charles Whitney (Law II)	Miss.	Whitman, William F. (Univ.)	D.C.
Graduate 1920, U.S. Military Academy		Whitman, Samuel M. (Univ., Uncl.)	N.C.
West, Gladys Anne (Jun. 21)	Ill.	Whitman, James William (Jun.)	D.C.
West, William Clyde (Col. 92, Law I)	Utah	Whitman, James C. (A.M.)	D.C.
West, William Whithead (Jun. 1)	D.C.	A.B. 1922, The George Washington University	
A.B. 1925, College of William and Mary	Va.	Whitman, John (Jun. 21)	Pa.
West, Elizabeth (Univ.)	D.C.	Whitman, Robert (Col. A.M. 18)	D.C.
West, Anna Elizabeth (Univ.)	D.C.	A.B. 1922, University of Maryland	
B.S. 1921, The George Washington University		Whitman, Thomas (Jun. 25)	Tex.
West, Leo Arthur (Col. A.M.)	D.C.	Whitman, Abraham Allen (Jun. 2)	D.C.
B.S. 1922, College of the City of New York		Whitman, Walter (Col. 94)	N.J.
West, George (Univ.)	D.C.	Whitman, Max (Jun. 24)	
West, Charles (Univ.)	D.C.	Ph.D. 1922, Columbia University	
West, Anna Elizabeth (Univ.)	D.C.	Whitman, Charles (Univ.)	Md.
B.S. 1922, College of the City of New York		Whitman, Florence Elizabeth (Jun. 17)	Monn.
West, George (Univ.)	D.C.	Whitman, Louis Vincent (Jun. 1)	D.C.
West, George (Univ.)	D.C.	Wildes, Orville Edwin (Jun. 48)	Wis.



Wiltford, Walter Herbert (Univ.)	D.C.	Witelschik, Isadore (Med. II)	N.Y.
Wittman, Eliza Frances (L. C. Ind.)	D.C.	A.B. 1888, The George Washington University	
A.B. 1888, The George Washington University		I.L.B. 1890, St. Lawrence University	D.C.
Wittman, Herbert Turtle (Jun. 18)	D.C.	Wittman, Ralph William (Jun. 1893)	D.C.
Wittman, John Philip (Law I)	Calif.	Wittman, George Black with (Grad.)	
B.S. in C.E. 1888, The George Washington University		A.B. 1887, A.M. 1890, The George Washington University	D.C.
Wittman, Robert April (Eng.)	D.C.	Wittman, Donald Edward (Univ.)	D.C.
Witt, Jacob Emma (Ed. 34)	D.C.	Wittman, Frances (Law III)	W.Va.
Witt, James Chester, Jr. (Jun. 16)	M.I.	Wittman, George M. Williamson (Ed. 84)	Pa.
Wittin, George Leonard (Eng. 64)	D.C.	Wittman, Jas. Frank (Law II)	
Witt, Edward Chester (Law I)	D.C.	A.B. 1887, Ohio Southern University	D.C.
Witt, Alfred Rouse (Univ.)	Va.	Wittman, John Thomas (Jun. 1)	M.I.
Witt, Catherine Grace (Jun. 1)	D.C.	Wittner, Richard Lewis (Jun. 26)	D.C.
Witt, Donald Leroy (Law I)	Mass.	Witt, Joseph May (Ed. 188)	M.I.
A.B. 1887, Oberlin College		Wittman, Augustine Edward (Univ.)	
Witt, Karl August (Univ.)	D.C.	A.B. 1888, University of Maryland	N.Y.
Witt, John (Law I)	D.C.	Wittman, Joseph Edward (Univ.)	N.Y.
Witt, Dorothy Marie (Col. A.M.)	D.C.	Wittman, John Joseph (Jun. 189)	Ks.
A.B. 1888, Williams College		Wittman, William Dwy (Jun. 72)	Ohio
Witt, Howard Clark (Jun. 31)	D.C.	Wittman, Anna Belle (Univ.)	D.C.
Witt, William Russell (Jun. 24)	D.C.	Witt, Fred (Grad.)	
Wittman, Anna Law (Law I)	Ill.	B.S. 1887, University of Maryland	D.C.
Wittman, Anna William (Univ. 50)	N.Y.	M.A. 1888, University of Virginia	
Wittman, David McCulloch (M.A. D.)	D.C.	M.A. 1888, Cornell U. Law I	Md.
A.B. 1888, University of North Carolina		Witt, George Walter (Univ.)	Ind.
Wittman, Ann M. Knight (Ed. 88)	Tex.	Wittman, H. H. (Law II)	D.C.
Wittman, Fred Harcourt (Univ.)	M.I.	Wittman, Henry (Ed. 89)	Md.
Wittman, Evelyn Charlotte (Jun. 52)	M.I.	Wittman, Henry (Ed. 89)	Va.
Wittman, Frank Larson (Law II)	Mass.	Wittman, John Joseph (Jun. 14)	D.C.
A.B. 1887, Mississippi Agricultural and Mechanical College		Wittman, John Joseph (Univ.)	N.Y.
A.M. 1888, University of North Carolina		Wittman, George Daniel (Ed. 88)	Kent.
Wittman, John Fenton (Jun. 33)	N.C.	Wittman, Volina Maxine (Ed. 88)	Md.
Wittman, Leola Jane (Univ.)	D.C.	Wittman, Carol John (Law I)	D.C.
A.B. 1887, Washington College		B.C.E. 1887, Cornell University	D.C.
Wittman, Mary Margaret (Univ. 87)	D.C.	Witt, Philip (Jun. 14)	D.C.
Wittman, Myra Dumas (F.A. 88)	D.C.	Witt, Arthur Stanley (Jun. 1)	Kent.
Wittman, Edward Lewis (Jun. 16)	S. Dak.	Witt, Karl (Jun. 1)	
Wittman, Michael Louis (Univ.)	D.C.	Witt, Richard Russell (Law II)	D.C.
Wittman, Ray Oliver (Univ. 41)	Ind.	B.S. 1888, M.S. 1890, Massachusetts Institute of Technology	M.I.
Wittman, John Larson (Ed. 118)	Pa.	Wittman, William Thomas, Jr. (Jun. 27)	D.C.
Wittman, John B. (Jun. 27)	Pa.	Wittman, Andrew Jack (Jun. 1)	Md.
Wittman, Joseph (Law II, M.)	Mass.	Witt, Jack (Univ.)	D.C.
I.L.B. 1888, The George Washington University		Wittman, Bertha (Univ.)	D.C.
B.P.L. 1888, American University		Wittman, Nettie Dorothy (Jun. 16)	
Wittman, Maria F. (L.S. 88)	Fla.	Witt, George C., Jr. (F.A. A.M.)	Calif.
Wittman, Mary George Hamilton (Col. 188)	N.Y.	A.B. 1887, Allegheny College	D.C.
Wittman, Ann Nell (Jun. 1)	D.C.	Witt, Henry R. (Med. IV)	D.C.
Wittman, Ann Marion (Jun. 45)	D.C.	Witt, Joseph (Ed. 112, 98)	
Wittman, Bruce Lee (Col. A.M. 21)	D.C.	Witt, Helen Mar (Univ.)	
A.B. 1887, Reed College		B.S. 1888, Kansas State Teachers College	Md.
Wittman, Charles Lewis (Jun. 8)	Va.	Witt, John Sumner (Law III)	D.C.
Wittman, Dorothy Nichols (Ed. 94)	D.C.	B.S. 1888, Harvard University	Va.
Wittman, Edward Comstock (Jun. 1)	D.C.	Witt, Joseph F. King (Eng. 75)	D.C.
Wittman, Elizabeth Abby (Univ.)	D.C.	Witt, Jane (Univ.)	D.C.
A.B. 1887, Randolph College		Witt, Kenneth D. (Jun. 1)	D.C.
Wittman, Herbert, Jr. (Univ. 3)	Tenn.	Witt, Irving (Ed. 74)	
Wittman, Howard (Eng. 100)	D.C.	Witt, William Edwin (Med. II)	
Wittman, James Robert (Eng. 2)	N.C.	B.S. 1887, Utah State Agricultural College	Ind.
Wittman, John Lawrence (Univ.)	D.C.	Witt, Wella Allen (Jun. 6)	Md.
Wittman, John Lewis (Law II)	Ala.	Wittman, Ernest Jonathan (F.S. 110)	M.I.
B.S. 1888, Alabama Polytechnic Institute		Wittman, Virginia Jonathan (Ed. 92)	D.C.
Wittman, John Randolph (Jun. 18)	D.C.	Wittman, Adelaide Elizabeth (Univ.)	Pa.
Wittman, Leo Milton (Univ.)	D.C.	Wittman, Byron D. (Col. A.M. 21)	D.C.
A.B. 1887, College of William and Mary		B.S. 1888, University of Pennsylvania	Pa.
A.M. 1888, York College		Wittman, Gene (Univ.)	D.C.
Wittman, Leo Carl (Univ.)	D.C.	Wittman, Orville Carter (Eng. 110)	Va.
A.B. 1887, Virginia University		Wittman, Everett Harry (Jun. 30)	N.C.
Wilson, Wallace A. (Jun. 45)	Minn.	Wittman, Stephen Russell (Eng. 2)	
		Woolard, Bruce Weldon (Univ. 1)	

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# Students Registered

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Bieringer, Isabel A.B. 1931, Radcliffe College A.M. 1932, The George Washington University	Mam.	Brown, Mary Catherine A.B. 1936, A.M. 1939, University of Washington	Ala.
Black, Henry Franklin B.S. 1928, Norwich University	Vt.	Brown, Mildred A.B. 1921, Goucher College	D.C.
Black, Joel Cantrell	D.C.	Brown, Neil Smith	D.C.
Black, Rachel	D.C.	Brown, Walter D.	D.C.
Blaine, James William	D.C.	Brown, Evelyn	Va.
Blair, John Alexander	D.C.	Bryman, Lawrence William B.S. & M.F. 1929, University of Illinois	Ill.
M.E. 1928, Cornell University	Okla.	Brumbaugh, Harry Emerich Ph.B. 1914, Dickinson College	Pa.
Blackley, Sarah Thorn A.B. 1914, Erskine College	Tenn.	Brumbaugh, Robert C. Allen	Pa.
Blair, Juliet	D.C.	Brunner, Lucille Crescentia	Mem.
Bland, Raymond L.	D.C.	Bryan, Ernest Rowlett	N.Y.
Blew, Genevieve Spence	D.C.	A.B. 1929, Syracuse University	Va.
Black, Edward L.	N.Y.	Bryan, Frank Bruce	D.C.
B.S. in M.E. 1929, New York University	D.C.	Bryant, William B.S. 1922, Michigan College of Mines	Va.
Blodgett, Agnes Marie	D.C.	Buchanan, Martha Hopkins	D.C.
Bogan, Joseph Borrow, jr.	Del.	Buckler, Edythe Annie A.B. 1931, The George Washington University	Va.
Boga, James C.	D.C.	Buckley, Carper W.	Va.
A.B. 1931, University of Delaware	D.C.	Buckley, Michael Lester	D.C.
Bohlen, Catharine B.S. 1926, University of Pennsylvania	D.C.	Budd, Wesley Bundy, Emory Edwin A.B. 1929, Williams College A.M. 1930, The George Washington University	Wash.
Boivin, Patrick Alfred	D.C.	Bundy, John Henry	Okla.
Bonnet, Anna Louise	D.C.	Bundy, Dorothy Frances	D.C.
Borwick, Julia Audrey	D.C.	Burd, John Lewis	D.C.
Borwick, Rosalie	D.C.	Burke, Louise Marie	D.C.
Bowen, Mary Elizabeth	D.C.	Burke, Anna Margaret	D.C.
Bowen, Mary Emma	D.C.	Burke, Margaret M.	D.C.
Bowen, Donald McAlpin, jr.	Md.	Burke, Louise Robert	D.C.
Bowen, Edgar Oliver	D.C.	Burke, Louis Robert Ph.D. 1921, Furman University	D.C.
Bowen, Ralph Lewis	D.C.	Burke, Katherine Wanda	Ala.
Bowen, Joyce Elizabeth	Md.	Burke, Katherine K.	D.C.
A.B. 1927, Western Maryland College	D.C.	Burke, John Theodore	Wash.
Boyle, Robin	D.C.	Burke, Donald Eugene Graduate, U.S. Naval Academy	Ark.
Bracker, Dwight Clovis A.B. 1929, The George Washington University	D.C.	Burke, Katherine A.B. 1929, University of Arkansas	D.C.
Bradtford, Ruth Arnet A.B. 1924, Arkansas State Teachers College	Ark.	Burke, Vernon L. B.S. & A. John Rose	Va.
Bradtford, Thomas Allen	D.C.	Burke, Louis Robert	D.C.
Bradtford, Jean Carr B.S. 1928, Johns Hopkins University	Md.	Burke, Nellie Florence A.B. 1929, University of Colorado	Okla.
Bradtford, Leontine	Md.	Burke, Ruth Bernice B.S. in Ed. 1929, University of Missouri	D.C.
Bradtford, Henry H. R. A.B. 1921, Blue Ridge College	Va.	Burgess, Mavis Rose Graduate, U.S. Naval Academy	W.Va.
A.M. 1927, University of Pittsburgh	Ill.	Busch, John L.L.B. 1926, The George Washington University	Ill.
Bredin, Ruth, Samuel Heavren L.L.B. 1926, The George Washington University	W.Va.	Cadwalader, Mildred Laverne	D.C.
Brett, Hattie Bredin, Hattie Ernest	Ill.	Cadwalader, Bruce	N.C.
Bredin, Florence Estelle	Ill.	Cadwalader, Samuel C.	Pa.
Brimm, Lena P. A.B. 1926, The George Washington University	W.Va.	Cadwalader, Louise	Va.
Brimm, Paul Clark A.B. 1921, University of Illinois	Ill.	Cadwalader, Barbara	W.Va.
Brimm, David George	D.C.	Cadwalader, O. S.	Utah
Brown, Simon M.F. 1924, Cornell University A.M. 1927, L.L.B. 1929, The George Washington University	D.C.	Cadwalader, Harold A.	Va.
Brooke, Dorothy Agnes	D.C.	Cadwalader, David P. A.B. 1925, Duke University	N.C.
Brookhart, Edith Anna	Md.	Cadwalader, Lewis Lee A.B. 1927, Duke University	Utah
Brooks, Albert Edwin, jr.	Tenn.	Cadwalader, William H. A.B. 1929, University of Utah	D.C.
Brooks, Gilbert	D.C.	Caplan, William	
Brooks, Ruth Curry	Md.		
Brown, John Lucille A.B. 1928, University of Oklahoma	Okla.		
Brown, Lois	Tenn.		

Carets, Edward Alexander	Neb	Chesser, Luten Lee	Ill
A.B. 1922, University of Nebraska		Chesworth, John W.	S.Dak
Carr, Charlotte Esther	D.C.	Cobb, James Francis	Kan
Carr, James	D.C.	Cobb, James J.	Mo
Carr, Agnes E.	Mo	Cobb, John William	NY
Carr, Eva Anna	D.C.	Cobb, Louis John	
Carr, H. Chertom	D.C.	A.B. 1919, Tennessee University	
Carr, Mary Dora	W.Ya	A.M. 1924, New Mexico College of	
Carrington, Gail L.	D.C.	Agriculture and Mechanical Arts	
Carrington, Arminda I.	D.C.	A.M. 1927, Columbia University	
Carr, John Marston	Kan	Cochran, Henry A.	Ill
A.B. 1917, Kansas State Teachers		Cochran, Jack Charles	Ind
College		Cochran, Barbara University	Va
A.M. 1922, Columbia University		Cochran, Richard	D.C.
Carter, Wilfred Emanuel	Mo	Cochran, Emmanuel Maurice	D.C.
Carter, Linda Marie	Va	Cochran, Joseph	E
A.B. 1924, The George Washington		Cochran, Benjamin Emanuel	D.C.
University		B.S. 1925, University of Illinois	D.C.
Cassidy, Wilfred Henry	Va	Cole, Louis	
Cassell, Myron Frederick	D.C.	Cole, Robert	
Cass, George Kenneth	Utah	B.S. 1922, The George Washington	D.C.
Cassidy, James M. Kee	Mo	University	D.C.
Cass, Albert	Va	Coleman, Clarence Guise	Mo
A.B. 1921, Wellesley College		Cole, Thomas	D.C.
Cass, Harry Edgar	Va	Cole, Frederick Mayhew	D.C.
Cass, Howard	D.C.	Coleman, Henry M.	D.C.
Cass, Ya Chai	China	Coker, John G.	Ind
Cassman, Edward Louis	Idaho	Cole, Joseph	
B.A. 1924, University of Idaho		Coleman, Ben C.	D.C.
Chesser, Jack Vincent	P.R.	A.B. 1924, University of Texas	NY
B.A. 1924, University of Puerto Rico		Coleman, Joseph A.	NY
Chen, Dora Emma	Hawai	Coleman, Earl Averell	Ind
B.A. 1924, University of Hawaii		Coleman, William Hyatt	
Chen, William Stanley	N.C.	Cole, Frederick Ayer	D.C.
Chen, John	China	A.B. 1921, DePaul University	Mo
Cherry, James W., Jr.	Utah	Cole, David Dean	Ind
Cherry, Nancy	S.C.	Coleman, Raymond Edward	Mo
A.B. 1922, Washburn College		Cole, Mary Elizabeth	D.C.
Cherry, Robert Fennest	Va	Coleman, Evelyn Claude	Mo
Chicklin, Mary Eugene	Mo	Coleman, George Albert	P.R.
Chick, A. Charles Yancy	N.J.	Coleman, Lawrence John	D.C.
B.S. 1922, Massachusetts Institute of		Coleman, John	D.C.
Technology		Coleman, Henry William	Mo
Chick, Howard Allen	Mo	Cole, Louis Frederick	Mo
Chickens, William Talley	Utah	Coleman, Ophelia Louise	D.C.
A.B. 1928, A.M. 1929, University of		Cole, J. Edmund	Mo
Utah		Coleman, Louis H.	Ind
Chick, John E.	Kan	Coleman, Howard Benn	
Chick, William Russell Rogers	NY	Coleman, William Russell	
B.S. 1924, The George Washing-		A.B. 1922, Vanderbilt University	Ind
ton University		A.M. 1928, Stanford University	
Chick, Thomas Antonio	D.C.	Coleman, Harold Cook	
A.B. 1922, Haverford Sydney College		Cowley, Charles Alfred	D.C.
Chick, Frederick Thomas	D.C.	B.S. 1922, Utah State Agricultural	Ky
Chick, Frank Marion	Va	College	D.C.
Chick, Harry Lawrence	D.C.	Cox, George Bradley	
Chick, Helen Crawford	Mo	Cox, A. J. D.	
A.B. 1922, Kansas College		Cox, Harold Albert	
A.M. 1922, Columbia University		B.S. 1922, Pennsylvania State College	D.C.
Cook, Louis William	Va	M.S. 1922, The George Washington	D.C.
Cook, Louis Thomas	Mo	University	D.C.
A.B. 1922, St. John's College		Craig, Paul A. Francis	D.C.
Cook, Mary Ann	Mo	Craig, Louis Albion	D.C.
Cook, Henry James, Jr.	Ky	Craig, William Ford	Ill
Cook, Louis Robert	D.C.	Craig, Catherine Harrington	
P.B. 1922, Boston University		Craig, Wilfred Stevens	
Cook, William Evelyn	Mo	B.S. 1922, Carnegie Institute	D.C.
Cole, John Paul	Mo	of Technology	D.C.
Cole, William Hood	Va	Craig, William Walter, Jr.	D.C.
A.B. 1922, Birmingham Southern		Cronin, Marston	Mo
College		Cron, Alphonse	
Coker, Alfred Rodman	Mo	Crocker, J. Allen	
Cole, John P.	Mo		

# Students Registered

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Cromwell, Frederick Paskell B.S. 1916, University of Illinois	Ill	Dolan, Solomon	N J
Crosby, Elizabeth W.	D C	Dolan, Gerald Johnson	Ia
Crosby, Victor Mary	Pa	Dolan, Daniel Augustus	M
Crosby, Edward Calhoun	D C	Dolan, John Frank	D C
Crosby, Robert E.	D C	Dolan, Mary Emma	D C
Cullberg, Donna Carolyn	Ca	Dolan, George Washington	Tex
Cullen, Frederick Eugene	Pt	Dolan, University	D C
Cumback, Nelson Charles	N Y	Dolan, University of Illinois	D C
Cumback, Rensselaer Polytechnic Institute	Ill	Dolan, University of Illinois	D C
Culp, Robt. Lee	Okla	Dolan, University of Illinois	D C
A.B. 1914, The George Washington University	Ill	Dolan, University of Illinois	D C
Cullen, John Broward	Pa	Dolan, University of Illinois	D C
A.B. 1911, University of Florida	Pa	Dolan, University of Illinois	D C
Cummins, Kathleen	N J	Dolan, University of Illinois	D C
Cummins, Kathleen Marie	Mt	Dolan, University of Illinois	D C
Cunning, Charles Andrew	Me	Dolan, University of Illinois	D C
B.S. 1916, University of Maine		Dolan, University of Illinois	D C
D			
Dale, Jane C.	Ill	Dolan, University of Illinois	D C
Daniel, Tom D.	N J	Dolan, University of Illinois	D C
Daniel, George Charles	D C	Dolan, University of Illinois	D C
Darling, H. Vernon	D C	Dolan, University of Illinois	D C
Darr, Viola Elizabeth	D C	Dolan, University of Illinois	D C
Davis, Eugene	N J	Dolan, University of Illinois	D C
Davis, Benjamin Lawrence	Ca	Dolan, University of Illinois	D C
Davis, Lucille Holloway	D C	Dolan, University of Illinois	D C
Davis, Mary	Pa	Dolan, University of Illinois	D C
Davis, Robert J.	Mo	Dolan, University of Illinois	D C
A.B. 1911, The George Washington University		Dolan, University of Illinois	D C
Davis, Gladys Meredith	Ky	Dolan, University of Illinois	D C
Dawson, Roy Carlton	D C	Dolan, University of Illinois	D C
Day, John W.	Mass	Dolan, University of Illinois	D C
Dayhoff, Charles Hal, Jr.	Conn	Dolan, University of Illinois	D C
A.B. 1911, Virginia Military Institute		Dolan, University of Illinois	D C
Deal, E. Grace	D C	Dolan, University of Illinois	D C
Dean, Mildred	D C	Dolan, University of Illinois	D C
A.B. 1911, Louchee College		Dolan, University of Illinois	D C
DeCamp, Herbert Rudolph	N J	Dolan, University of Illinois	D C
Dicker, James W.	Mt	Dolan, University of Illinois	D C
Deffenbaugh, Ruth	D C	Dolan, University of Illinois	D C
A.B. 1911, West Virginia University		Dolan, University of Illinois	D C
DeHays, Miriam M.	D C	Dolan, University of Illinois	D C
DeHays, Margaret Gordon	D C	Dolan, University of Illinois	D C
DeHays, John Henry, Jr.	Ca	Dolan, University of Illinois	D C
DeMott, B. Lloyd Otto	D C	Dolan, University of Illinois	D C
DeMott, Frederick	Mt	Dolan, University of Illinois	D C
Demers, Ethel M.	Pa	Dolan, University of Illinois	D C
Demeyer, Matiel	Ill	Dolan, University of Illinois	D C
B.S. 1911, Northwestern University		Dolan, University of Illinois	D C
Deer, John C.	D C	Dolan, University of Illinois	D C
Deer, Jack Leon	D C	Dolan, University of Illinois	D C
Derwold, Mary Herman	D C	Dolan, University of Illinois	D C
Derr, Joseph	D C	Dolan, University of Illinois	D C
Desmond, Spencer	N Y	Dolan, University of Illinois	D C
Dev, Algon	Pt	Dolan, University of Illinois	D C
Dick, S. Jack	D C	Dolan, University of Illinois	D C
Dickman, George I.	Conn	Dolan, University of Illinois	D C
B.S. 1911, Middleburg College		Dolan, University of Illinois	D C
Dicker, John	Pa	Dolan, University of Illinois	D C
A.B. 1911, The George Washington University		Dolan, University of Illinois	D C
Dicker, Robert	Pa	Dolan, University of Illinois	D C
B.S. 1911, Fredericksburg State Teachers College		Dolan, University of Illinois	D C
Dietrich, Karl	D C	Dolan, University of Illinois	D C
Dick, Louis Harold	D C	Dolan, University of Illinois	D C
Dick, Kathryn V.	D C	Dolan, University of Illinois	D C
Dunsmore, Clarence William	D C	Dolan, University of Illinois	D C





# Students Registered

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Gropper, Edward J.	D.C.	Healy, Ernest Alfred	D.C.
Gould, Roxabette Dunlop	Md.	Henson, Fannie Ruth	Pa.
A.B. 1926, Balliol College		Heller, A. Frazier	Ill.
Graham, Joseph R.	Md.	Holbrooke, William	D.C.
Greene, Orville N.	Pa.	Holmes, Helen Margaret	Calif.
A.B. 1926, Lehigh University		Holmes, Mary Ann	D.C.
Greenwood, Joseph Richard	Ind.	Holmes, Ralph Leonard	Md.
B.S. 1926, University of Indiana		Holmes, George B.	Ind.
Gripsh, Kelsey E.	Va.	Honey, Mary Margaret	D.C.
Groble, Neil	D.C.	Honey, Norman Miller	D.C.
Graham, Nye Winifred	Pa.	A.B. 1928, University of North	
Grossman, Pauline	Ark.	Carolina	
Gustaf, Frank Edward	Wis.	Herath, Albert Thomas	D.C.
A.B. 1926, The George Washington		A.B. 1928, Central University	
University		Herman, David Peter	Me.
Gustaf, Ernest Frederick	D.C.	Himes, Raymond C.	Ohio
Gustafson, Royal Arch	Wash.	Himes, Raymond	D.C.
Guthrie, Rosa Ritter	Md.	LI.B. 1928, Washington College of Law	
A.B. 1928, Harvard University		Hess, Eva Roseberry	D.C.
Guston, Charles M.	D.C.	Hess, Jeanette S.	D.C.
		Hess, Margaret Gordon	D.C.
		Hessel, Emma Teresa	D.C.
		Hessert, Elizabeth Emma	D.C.
		Hett, John Edgar	Ind.
		Hibbsman, Maurice Wilhelm	Wash.
		Graduate, U.S. Naval Academy	
		Hickman, Clara	D.C.
		A.B. 1926, The George Washington	
		University	
		Hicks, Walter W.	Va.
		Hickman, James Leonard	Tenn.
		A.B. 1924, University of Oklahoma	
		A.M. 1926, University of Wisconsin	
		LI.B. 1928, University of Memphis	
		Hill, Elizabeth Marie	Mich.
		Hill, Florence Belle	Ind.
		Holman, Samuel	D.C.
		Holmes, Lamar S.	N.J.
		Holmes, Leonard	D.C.
		Holmes, Charles M.	D.C.
		Holmes, Walter Freeman	N.Y.
		Holt, Bennett Marion	D.C.
		Holmes, Ned Fremont	Kans.
		Holt, Royal	D.C.
		Holmes, Alton Warner	D.C.
		Holmes, Barbara E.	Ill.
		Hogan, Marjorie Gota	Mich.
		Hogge, Edwin Leo	Ohio
		Holmgren, Erika	Calif.
		Holmgren, Henry Bruce	Tex.
		Holmgren, Lindsay Lee	D.C.
		Holmes, Louis A.	
		A.B. 1927, University of Nebraska	
		Holmes, Edward W.	Pa.
		Holmes, Robert S.	N.J.
		B.S. 1926, Massachusetts State	
		College	
		Hoyt, Anna Kennelly	D.C.
		A.B. 1926, The George Washington	
		University	
		Hoyt, Raymond Frederick	D.C.
		B.S. 1926, The George Washington	
		University	
		Houston, Vera K.	D.C.
		Houston, I. Ray	Va.
		Hovick, Josephine Theo	N Mex.
		A.B. 1926, The George Washington	
		University	
		Howatt, William P.	D.C.
		Howe, William Ernest	D.C.
		Howell, Andrew	D.C.
		Hudson, R. Minor	D.C.
		Hudson, Schuler B.	D.C.
		Hudson, Thomas Buford	N.C.

## H

Hadley, Harold D.	Iowa
Hahn, John R.	N.C.
Hahn, John R.	Pa.
Haley, Alton K.	D.C.
Haley, Grace Wright	D.C.
Haley, James William	D.C.
Hall, Robert Edward Lee	Va.
Hall, Thomas Randolph	D.C.
Hall, Henry Charles, Jr.	D.C.
Hall, William Arthur	D.C.
Hall, Lillian Anna	Va.
Hall, John Stanford	Ariz.
Hall, Frances W.	D.C.
Hall, Paul F.	D.C.
B.S. 1927, Dartmouth College	
Hannan, Loretta	
Hart, Glen F.	D.C.
A.B. 1926, University of Utah	
Hart, Margaret R.	Utah
Hart, Edward Glen	D.C.
Ph.D. 1928, Syracuse University	
Hart, Philip Kemp	D.C.
Hart, Lamar Brewster	W Va.
Harrison, Barbara Lou	Mont.
Harrison, Marian Butler	D.C.
Harrison, Sally Fairfax	D.C.
Hart, Casper	Va.
A.B. 1926, Western Maryland	
University	
Hart, Charles William	Md.
Hart, William James	D.C.
A.B. 1926, The George Washington	
University	
Hartwell, Lila Frances	D.C.
Hartwell, Lawrence Ambrose	Va.
Hart, Lemuel Allen	Md.
B.S. 1927, University of Maryland	
Hart, Walter Henry	Md.
Hart, Ralph Freeman	Iowa
Hart, Joseph Allen	Kans.
A.B. 1928, "Marshall" College	W Va.
Hart, Lawrence Fleming	W Va.
Hart, Norman Dauphan, 3d	D.C.
Hart, Elizabeth	D.C.
Hart, Edwin Perry	D.C.
Hart, David Lefrande	Va.
Hart, Stephen Pines	D.C.
Hart, Harry James	Me.
Hart, Philip Gary	D.C.
Hart, Audrey Veronica	D.C.
Healy, Arthur	Conn.

Huff, Daine Ione B.S. 1936, Washington University A.B. 1937, A.M. 1938, The George Washington University	D.C.	K Katan, J. Earl A.B. 1931, American University	P.C.
Huff, Florence Moller A.B. 1934, The George Washington University	P <sub>2</sub>	Kadie, Carl Henry Kemp, Albert H. B.S. 1934, The George Washington University	M P.C.
Hughes, Joe D. D.C.	D.C.	Kamsky, Israel B. University	P <sub>2</sub>
Hughes, Louise Ruppert B.S. 1935, University of Pennsylvania	D.C.	Kaputa, Peter B.S. 1931, Oregon State College	P.C.
Hull, Maudie W.Va.	D.C.	Karnes, Robert Jack Katzman, Norman S.	P.C.
Hunt, Hattie Louise Ind.	D.C.	Kauffman, Vernet Charles B.S. 1928, University of Pennsylvania	P <sub>2</sub>
Hunt, J. Paul B.S. 1922, University of Indiana	D.C.	K <sub>2</sub> 1930, Massachusetts Institute of Technology	P.C.
Hunt, Lucy Jones A.B. 1911, The George Washington University	D.C.	Kay, Max Kearse, Vivian	S.C.
Huntzberger, Lee Ohio	D.C.	Kearse, Vivian A.B. 1928, North Carolina College for Women	P.C.
Hunter, Anne George D.C.	D.C.	Keen, Luther Barrington Kemper, John R.	P.C.
Hunter, John H. J. D.C.	Ind.	Kemper, Jesse Lawrence Kempner, Ralph Heasley	P.C.
Hunter, Ruth Henry A.B. 1931, The George Washington University	D.C.	Kendall, DuWay A.B. 1914, The George Washington University	P.C.
Hutton, George Maddin A.B. 1914, The George Washington University	D.C.	Kendall, DuWay University	P.C.
Hutton, Alex Campbell D.C.	D.C.	Kendall, DuWay University	P.C.
Hutton, Harry Thad Lee B.S. 1925, The George Washington University	Tex.	Kendall, DuWay University	P.C.
Hvatt, Leon A.B. 1921, The George Washington University	Md.	Kendall, DuWay University	P.C.
Hvatt, James Pearle		Kendall, DuWay University	P.C.
I			
I'Anson, Nannie Armstrong A.B. 1921, The George Washington University	D.C.	Kendall, DuWay University	P.C.
Izumiya, Natsuo Sakamoto D.C.	P.I.	Kendall, DuWay University	P.C.
Izumiya, Natsuo D.C.	D.C.	Kendall, DuWay University	P.C.
Izumiya, Natsuo D.C.	P <sub>2</sub>	Kendall, DuWay University	P.C.
Izumiya, Natsuo A.B. 1925, University of Pennsylvania		Kendall, DuWay University	P.C.
J			
Jackson, John W. Smith B.S. 1925, University of Pennsylvania	D.C.	Kendall, DuWay University	P.C.
Jackson, Thomas S. D.C.	D.C.	Kendall, DuWay University	P.C.
Jacobs, Laura D.C.	D.C.	Kendall, DuWay University	P.C.
James, Irene Dwyer Md.	D.C.	Kendall, DuWay University	P.C.
James, Louise V <sub>2</sub>	D.C.	Kendall, DuWay University	P.C.
James, Joseph Tyson D.C.	D.C.	Kendall, DuWay University	P.C.
James, Joseph D.C.	D.C.	Kendall, DuWay University	P.C.
Jellicoe, Robert Landon A.B. 1911, The George Washington University	W.Va.	Kendall, DuWay University	P.C.
Jones, Martin F.D. Ohio	V <sub>2</sub>	Kendall, DuWay University	P.C.
Jones, Gerald E. D.C.	Ohio	Kendall, DuWay University	P.C.
Jones, Duane Landon V <sub>2</sub>	D.C.	Kendall, DuWay University	P.C.
Jones, Edward Thomas M.I.	D.C.	Kendall, DuWay University	P.C.
Jones, Harry B. J. Ill.	D.C.	Kendall, DuWay University	P.C.
Jones, Joseph Reid W.Va.	D.C.	Kendall, DuWay University	P.C.
Jones, Paul E. W.Va.	D.C.	Kendall, DuWay University	P.C.
Jones, Vernon LeRoy N.Y.	D.C.	Kendall, DuWay University	P.C.
Jones, Fred H. D.C.	D.C.	Kendall, DuWay University	P.C.
Jones, Augusta Irene W.Va.	D.C.	Kendall, DuWay University	P.C.
Jones, Gertrude Isabelle Tex.	D.C.	Kendall, DuWay University	P.C.
Jones, Jack Albert D.C.	D.C.	Kendall, DuWay University	P.C.
Jones, Ruth Pauline D.C.	D.C.	Kendall, DuWay University	P.C.
Jorg, Charles Otto		Kendall, DuWay University	P.C.



### Students Registered

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Kobal, Andrew Blaz	D.C.	Lewis, Maud	Ind.
Ph B. 1923, University of Chicago		A B. 1927, The George Washington University	
Kobler, Arvid Maxwell	W Va.	A M. 1928, Columbia University	D.C.
Kobler, Helen Jean	Md.	Lecky, William Henry	
Kobler, Bernard	D.C.	B.S. 1931, University of Maryland	D.C.
Kobner, Elizabeth Louis		Light, Henry	D.C.
A B. 1932, The George Washington University		Lightner, Virginia Dorsey	D.C.
Kohlmansen, Wayne Marquis	Ohio	Ligon, David Strevell	Va.
BS in E. E. Univ. London College		Ligon, Jean	D.C.
Krausner, Reginald Joseph	D.C.	Ligon, H. Wayne	Mass.
A B. 1926, The George Washington University		Ligon, Ruth Marion	D.C.
Kraus, Robert William	Ill.	Ligonier, Paul Myron Anthony	D.C.
Kreschman, Charles M.	Pa.	Ligon, Esther Louise	D.C.
Kristof, Milton Stanley E.	D.C.	Lick, Dorothy Christine	Iowa
Kulher, Elizabeth Yahl	D.C.	Licht, Harry Evan	Ind.
		Linscott, Henry Davis	Kans.
		B.S. 1931, Kansas State College of Agriculture and Applied Science	
L		Lisman, Bruce	D.C.
Lacey, Janice Burroughs	D.C.	A B. 1931, The George Washington University	
A B. 1930, The George Washington University		Livington, Susan V.	D.C.
Laffin, Anna	Pa.	Livy, Frank L.	Mass.
Lambros, Vasilios Simos	D.C.	Lutz, Jean McFarland	Md.
Landy, Florence Pugh	D.C.	A B. 1928, The George Washington University	
A B. 1925, North Carolina College for Women		Lockhart, Walter Cathil, Jr.	D.C.
A M. 1923, The George Washington University		Lockwood, Chas. Rine	Ohio
Lane, Dorothy M.		Logsdon, Debra Monroe	Ind.
Lane, Jean	Mo.	Lodman, Philip Hans	D.C.
Lankford, Roberta	D.C.	Lodman, Phyllis	D.C.
Larkin, Lawrence Thomas	Md.	A B. 1923, A.M. 1928, The George Washington University	D.C.
Larkin, Irving Gilbert	Mass.	Lodner, George Marston	Pa.
Larley, Anne Willis	N.J.	Lof, Clarence Irving	D.C.
Latham, William I.	D.C.	Lomax, Paul S.	D.C.
Lathrop, John Bouae	D.C.	Lomax, Roger Shells	D.C.
Lathrop, Alice Frances	Va.	Lowe, Fred Karvian	D.C.
Laubinger, Ruth Clara	D.C.	Lowe, Charles S.	W Va.
Laumann, Elizabeth Anne	D.C.	Lowe, Robert Chupin	N.J.
Laure, Estelle	D.C.	Loe, Da-Jone	D.C.
Lavine, Harold Harry	D.C.	Lough, Harold E.	D.C.
LI B. 1925, LI M. 1928, The George Washington University		A B. 1917, LI B. 1928, The George Washington University	
Lawton, Aletha Helen	D.C.	Ludwig, Wladimir Sanner	D.C.
A B. 1932, The George Washington University		Ludwig, Robert E.	Va.
Lawton, Philip Raymond	Colo.	A B. 1926, The George Washington University	
A B. 1931, LI B. 1932, The George Washington University		Luers, Margaret Frances	Md.
Leary, John Berchmans	N.J.	Lund, Fred H. Heath	D.C.
Ph B. 1932, Georgetown University		B.S. 1923, C.E. 1924, University of Minnesota	
Lee, Donald E.	W Va.	Lunenburg, George Waldemar	D.C.
Lee, Joseph Fitzhugh	D.C.	Lytle, Herman Powell	D.C.
Lee, Rayelle	Okl.	B.S. 1932, The George Washington University	D.C.
Lee, Edward	D.C.	Lyman, Joseph	
Lee, William Estel	D.C.	A B. 1931, The George Washington University	D.C.
Lee, Yoo How	D.C.	Lynch, John Thomas	D.C.
Lee, Chung Sang	D.C.	A B. 1934, University of Wisconsin	D.C.
Lees, Lewis J.	D.C.	Lynch, Ezra Phoebe	
B.S. 1921, Worcester Polytechnic Institute	Mass.	A B. 1921, A.M. 1925, The George Washington University	Md.
Leonard, Frank Reuben	Vt.	Lyons, Helen Frances	
Leslie, Leona	Mo.		
Levathes, Peter G.	D.C.		
Levi, Rita Helen	N.Y.		
A B. 1930, Cornell University			
Levin, David	D.C.		
Levin, Leon	D.C.		
Levy, Harold Allen	W Va.		
Lewis, Amy	Ark.		
		MacDuff, Gertrude Thebaud	Ind.
		Mackay, Pauline Louise	D.C.
		MacVaugh, Gilbert	D.C.
		A B. 1930, American University	

Magee, Lucille D'Arcy	D.C.	McCollum, Lloyd	D.C.
Magee, William George	D.C.	McCollum, University of Maine	D.C.
Magers, E. L.	Tex.	McConnell, Katherine	N.C.
A.B. 1929, North Texas State Teachers College		McConnell, Jessie Carpenter	Ind.
Magers, Mrs. E. L.	Tex.	McCurry, Ralph R.	D.C.
Magnus, Margaret Vauze	Va.	McDonald, Annabelle	D.C.
Makela, Engel K.	D.C.	McCarthy, Charles Ross	D.C.
Makinen, Andrew Roth	D.C.	McCombs, F. Joseph Watson	D.C.
Malby, Margaret Beatrice	Pa.	McCombs, Alfred Brammick	D.C.
Mandy, Wanda Lull	Va.	McCombs, Oliver N.	D.C.
Mann, James DeValer	Ala.	McCombs, Grace	D.C.
A.B. 1928, Birmingham-Southern College		McCombs, Sarah E.	D.C.
Mann, Christine Kathryn	D.C.	McCombs, Barton A.	D.C.
Mansbach, William Scott	Conn.	A.B. 1929, University of Maryland	D.C.
A.B. 1888, Wesleyan University		McCombs, David Edward	D.C.
B.D. 1886, Ph.D. 1921, Yale University		McCombs, Elizabeth Hart	D.C.
L.L.B. 1921, The George Washington University		McCombs, Robert Vernon	Pa.
Mantel, Louis Michael	N.Y.	McCombs, Othello Parrish	Pa.
Mantel, Howard G.	Calif.	McCombs, Marjorie A.	Ind.
B.S. Eng. 1926, M.S. 1927, University of Michigan		A.B. 1922, The George Washington University	Ind.
Martens, Cassius Philip	D.C.	McKee, Craig	Ind.
Martens, J. Nathaniel	N.Y.	McKee, Lawson Morell	Okla.
Martens, Katherine	Kans.	McKee, Paul	
A.B. 1928, University of Kansas		McKee, C. Maurice	Ind.
Martens, Ruth	D.C.	B.S. 1921, M.F. 1925, Purdue University	D.C.
A.B. 1921, The George Washington University		McKee, Anna Helmer	Calif.
Martens, Eleanor E.	D.C.	McKee, Carl Harold	D.C.
Martens, Walter Howard	Md.	McKee, Grace Katherine	D.C.
Martin, Anna Katherine	W.Va.	McKee, Clarence Valen	D.C.
Martin, George B.	Kans.	McKee, Harold Oakes	D.C.
Martin, Maybelle Eppard	D.C.	McKee, George Hamilton	D.C.
A.B. 1921, A.M. 1924, University of Colorado		McKee, Wake Forest College	Pa.
Martin, Martha F.	Ga.	McKee, Agnes L.	Pa.
Martin, Robert F.	Mass.	McKee, Jerry M.	Pa.
B.S. 1921, Massachusetts State College		McKee, David Ennall	D.C.
Martin, Robert J.	D.C.	LL.M. 1926, The George Washington University	D.C.
Mason, Martha Jennie	Ky.	McKee, Louise Carol	Okla.
Mason, Richard D.	Okla.	McKee, Raymond James	
A.B. 1922, B.S. 1924, P.E. 1924, University of Oklahoma		McMinn, Gerald James	Va.
M.S. 1931, Massachusetts Institute of Technology		B.S. 1920, University of Oregon	Ala.
Massey, Charles Frances	D.C.	McMinn, James Thomas	
Matheson, Harry	D.C.	McMinn, Eleanor Bradford	N.Dak.
Mathson, Frederic Church	D.C.	A.B. 1924, The George Washington University	
E.E. 1920, Lehigh University		McMinn, Hemmerson Aelo	Pa.
Mathews, Anne Marguerite	D.C.	B.S.C. 1926, University of North Dakota	
Mathews, George E.	D.C.	McMinn, Cora Joy	
Mathis, W. J. Jane	Ga.	A.B. 1921, The George Washington University	Md.
Maw, James Thwait	Tex.	A.M. 1926, Columbia University	N.Y.
Mayberry, Bernard Corelius	Ill.	Memminger, Israel Mordecai	D.C.
A.B. 1921, University of Illinois		Menke, Blaine H.	
Mayer, Harry Ripley	Mo.	Menke, Bertha	N.Y.
B.S. 1921, University of Maine		A.B. 1921, A.M. 1924, The George Washington University	D.C.
Mayhew, E. Joe	Md.	Michelson, Irving	D.C.
Mayer, Margaret Churchill	D.C.	Middleton, Frederic Andrew	D.C.
McAtee, Frank	Ark.	A.B. 1928, University of Maryland	D.C.
A.B. 1921, The George Washington University		Middleton, Helen C.	Md.
McBride, Maude Mildred	Nebr.	Mike, Loula	
McCarver, Clarence U. Satal	Tex.	McLennan, Helen Paedrin	Conn.
A.B. 1924, Howard Payne College		M.L. 1926, The George Washington University	Pa.
McCawland, M. L.	Ind.	A.B. 1929, University of Maine	D.C.
McClellan, Sidney	Pa.	B.S. 1921, M.F. 1925, University of Michigan	D.C.
McClelland, Casper Shephard	Pa.	Miller, Helen	Okla.
McClure, Martha Anne	D.C.	Miller, Helen Price	
B.S. 1931, Mississippi State Teachers College		Miller, Herman Russell	

# Students Registered

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Miller, Kenneth Ray A.B. 1924, Brigham Young University	Utah	Murphy, Irene May Murphy, Maxwell Kerr R. 1925, University of Maine	D.C. Me. Va.
Miller, Leland W. Jr. Miller, Mahana Katherine U.S. 1919, Columbia University	D.C. Ky.	Murray, David Daniel Murray, J. Florence A.B. 1927, Gardner College	D.C. D.C. D.C.
Miller, Paul R. R. 1926, Indiana State Teachers College	Ind.	Murray, Lester LeRoy Mustake, Katherine Grace Musk, George Edward A.B. 1921, The George Washington University	D.C. D.C. D.C.
M.S. 1921, Purdue University Mott, Raymond Mott, Robert Loren, Jr. Milne, Oswald Herman B.S. 1926, University of California	Conn. D.C. Calif.	Myers, Gertrude	D.C.
Moskin, Sophie Moser, Francis W. Mississippi, Keith G. B.S. 1925, Armour Institute of Technology	D.C. Iowa Ill.	N	
T.I.R. 1924, Washington College of Law	D.C.		
Mitchell, Emily Rosalie A.B. 1927, Wesleyan College	D.C.	Nackhoff, Jacob Leo R. 1928, University of Nebraska	Nebr. P.I.
Mitchell, Charles Harry Mittell, Herbert Francis, Jr. Mittell, James Marshall A.B. 1922, The George Washington University	D.C. Md. D.C.	Naga, Carolyn C. Nash, Carolyn Blue Nash, Sara Mary A.B. 1927, Bryn Mawr College	D.C. S.C. D.C.
Mitchell, Jeanne Mitchell, Mary Catherine A.B. 1924, Wesleyan College	D.C. D.C.	Nash, John Barry Nelson, G. Harold B.S. 1926, Utah State Agricultural College	N.Y. Utah D.C.
Mohr, Vera C. Molloy, Ruth King Molloy, Robert C. Molloy, Emma W. Molloy, Frances Molloy, Helen Elizabeth Molloy, Lucille Lee A.B. 1928, Vassar Military Institute A.M. 1929, University of Pennsylvania	N.Dak. D.C. D.C. D.C. N.Y. D.C. Va.	Nelson, Clarence G. Nelson, John Nelson, G. and H. Nelson, John A.B. 1926, The George Washington University Nelson, Margaret E. Nelson, Norman Justin A.B. 1927, The George Washington University A.M. 1928, Harvard University	Minn. N.C. D.C. Iowa Md. D.C. D.C.
Monroe, Lillian Flora Monro, Nellie Gray Monro, Ruth P. B.S. 1929, University of Virginia	D.C. Va. Va.	Nelson, Ruth D. Nelson, Sylvia Bertha Nelson, Mary Katherine Nelson, John William A.B. 1921, The George Washington University	Kans. Pa. Md.
Monro, Martha More, Beale R. More, Clara W. More, George Mansfield More, Howard Nelson E.E. 1921, Cornell University More, Myrtle Elizabeth A.B. 1922, The George Washington University	D.C. N.Y. Idaho D.C. W.Va. D.C.	Nelson, Jewel Ernestine Nelson, John B. Nelson, Louis N. J. Nelson, Walter S., Jr. Nelson, Beatrice Mary Nelson, Jessica Cowley Nelson, Arthur Carmen Nelson, Bertha Demarest Nelson, Pauline Joy Nelson, Myrtle Elaine Nelson, Frank Royce A.B. 1926, University of South Carolina	Md. Mich. Va. Minn. Utah Ill. Va. D.C. D.C. S.C. D.C.
More, Ruben Williams Morehead, Gertrude Elizabeth Morrill, George Adolf Morgan, Evelyn W. Morgan, Robert Eltonzo Morgan, Lena Murphy, Maurice Albert A.B. 1923, Hamilton College Moss, Elaine V. Morrison, Henry McAllen A.B. 1921, Davidson College A.M. 1926, The George Washington University	D.C. D.C. Minn. M.I. D.C. Pa. Me. Md. D.C.	Norris, John G. A.B. 1924, The George Washington University Northrup, Vernon Datesman A.B. 1928, A.M. 1929, The George Washington University Norris, John F. Norris, Helen Blanche Nutter, John Barnett	Pa. D.C. Va. D.C.
Morris, Sara Roberta Morton, Irving Lee, Jr. Moss, Clarence Moulton, Philip Movers, Kenzie Allen A.M. 1922, Columbia University Mullolland, Elizabeth Anne Mullins, Creston Mack Murray, Louise Matt Murata, Jack	D.C. N.C. Va. N.H. W.Va. D.C. N-br. D.C. Calif.	O	
		O'Brien, Thomas D. O'Connell, Carl Henrietta A.B. 1926, The George Washington University O'Keefe, Arthur B., Jr.	D.C. D.C. Conn.



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### Students Registered

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## R

Racopp, Rosalinda Rose Moore  
Radtiger, J. Harold  
Radake, Margarette  
Rav, Ruth R.  
Raxwe, Josephine  
Rea, Patricia M.  
Rear, Herbert A.  
Redkey, William Henry  
Reeve, Linda M. W.  
A. B. 1922, The George Washington University  
Reeve, John Lenta  
Reeves, Elizabeth Amelia  
Reitz, Emma Essena  
J. B. 1922, Georgetown University  
Remley, Ralph Day  
Remsey, Charles Cornell, II.  
J. B. 1922, Cornell University  
Reynold, Louis  
Rham, George E.  
Rice, Roland  
A. B. 1922, American University  
Richard, Louis Walsh  
Rivers, William A.  
Richardson, Charles Randolph  
Richardson, Mary Harrington  
A. B. 1922, Yale University  
Richtmeyer, Claude Mable  
B. S. 1924, College of William and Mary  
Richtmeyer, Diane Case  
M. D. 1922, The George Washington University  
Riggins, Goldie Belle  
A. B. 1922, Greenville College  
A. M. 1922, The George Washington University  
Riggins, Maude Irene  
A. B. 1922, Greenville College  
A. M. 1922, University of Michigan  
Rivlin, Robert Chaboun  
B. S. in C. E. 1922, Catholic University of America  
Ripley, Anne S.  
Risher, Charles W.  
A. B. 1922, Indiana State Teachers College  
Ritterman, Marian Russell  
Rivers, Dingo J.  
Roach, Catherine Elizabeth  
Rothman, Cecil A.  
A. B. 1922, Ohio State University  
Rothman, Ralph S.  
Rothman, Sarah Pickens  
Robertson, Frank Wright  
Robertson, Elizabeth Winona  
Robinson, William W.  
Roe, Edward Thomas  
Robert, Carl Potter  
Rollins, Mary J. Lett  
A. B. 1922, H. Sophie Newcomb College  
Romelt, Arthur Carl  
Romney, Henry Leigh  
Romsaville, Mattie  
Rose, Elizabeth Whiting  
Ross, Louis  
Roth, George M.  
A. B. 1922, The George Washington University  
Rothenberg, Clarence F.  
Rouse, Sara P.  
Rudd, Elizabeth Draper

[illegible]

Shantz, Richard Fines B.S. 1928, L.L.B. 1931, University of Virginia	D.C.	Smith, Walter Baccett A.B. 1921, College of William and Mary	Va
Shannon, Robert Kenneth	D.C.	Smith, William George, jr.	Md
Shapiro, Abe A.	D.C.	Smith, Charles F. Rogers	Va
Shapiro, Abraham	Md	Smollett, Dania F. Smollett	
Shapiro, Harry Leone	D.C.	B.S. 1926, Florida State College for Women	Md
Shaw, Thomas M.	Pa	Smyth, Anne A.B. 1918, The George Washington University	Va
Sheldon, Anne Colbert	D.C.	Smyth, Anne Brown	Ohio
Sheldon, Frederick DeWitt A.B. 1925, Dury College	Mo.	Smyth, Anne, Powell Lawrence	Ohio
Sherrin, Elizabeth	Va	Smyth, Anne, Walter Alexander	Pa
Sherman, Edward Clayton, jr. Sherman, Louis	D.C.	Smyth, George W. A.B. 1927, The George Washington University	D.C.
Sherwood, William Earl B.S. in M.E. 1927, University of Kentucky	Ky	Spaulding, Mary C.	Wyo
Short, Maria Robert	Okla.	Spaulding, Neal W.	Calif.
Shotts, H. Daniel A.B. 1925, Allegheny College	D.C.	Spaulding, John B.S. in E.E. 1922, The George Washington University	D.C.
Shuman, Paul H.	Iowa	Sprengle, Lillian Rena	D.C.
Shyne, Mary Fayfax	Va	Sprengle, Vera M.	Va
Shut, Jean Elizabeth	D.C.	Sprunt, Margaret Wyetta	Ill
Shutman, John	D.C.	Sprunt, Elsie Frances	D.C.
Sidley, David Reginald	D.C.	Sprunt, William Paul A.B. 1921, The George Washington University	D.C.
Sidley, Anne K., jr.	D.C.	Sprunt, Charles Elizabeth	D.C.
Sidman, E. George B.S. 1925, Oklahoma Agricultural and Mechanical College	Okla.	Sprunt, Kathleen Marian	Okla.
Simmons, B. De A. Oliver	Va	Sprunt, Joseph Harry	Ky
Simmons, Ben Evelyn, jr.	N.C.	Sprunt, John	D.C.
Simmons, Marion McCorkle	N.C.	Sprunt, John R.	Md
Simons, R. Hamilton	N.Dak	Sprunt, Anne Helen	D.C.
Sims, Charles P.	D.C.	Sprunt, David R. Sprunt	D.C.
Sims, William Elvason	N.C.	Sprunt, Marcia Clokey	D.C.
Sims, Fred W. A.B. 1923, Simmons University	Tex	Sprunt, Carlos R. Sprunt A.B. 1924, The George Washington University	Calif.
Sir, Walter Henry Graduate, U.S. Naval Academy	Iowa	Sprunt, Beat Madison	D.C.
M.S. 1926, Massachusetts Institute of Technology		Sprunt, E. Scott Thomas	D.C.
L.L.B. 1924, The George Washington University		Sprunt, Evelyn A.	D.C.
Sizer, Joseph A.	Calif.	Sprunt, Rudolph George	D.C.
Sizemore, E. The Julian	Va	Sprunt, Margaret Russell A.B. 1924, The George Washington University	Va
Sizemore, Harry Anna	Va	Sprunt, Gordon	Va
Sizemore, Joe	D.C.	Sprunt, Elsie O.	D.C.
Sizemore, Raymond E. B.S. 1926, Harvard University	Mex.	Sprunt, Fred Howard	Va
Smith, Basil J.	D.C.	Stewart, Mary Jane A.B. 1922, American University	D.C.
Smith, Carol Newton	D.C.	Stewart, John LeRoy	Va
Smith, Clyde Wilson	D.C.	Stewart, Gordon Oliver	D.C.
Smith, Dorothy E. Smith	D.C.	Stewart, Arthur	Pa
Smith, Geraldine Barn	D.C.	Stewart, John Lewis	Md
Smith, Gregory R.	D.C.	Stewart, Robert Paul B.S. 1924, M.S. 1925, University of Maryland	D.C.
Smith, Harry LeRoy	Ill	Stewart, John Kenneth	Okla.
Smith, Helen Ford	D.C.	Stewart, Ruby D. Mar	Md
Smith, John Wallace	Ohio	Stewart, Lawrence Garrett A.B. 1927, Swarthmore College	D.C.
Smith, Lillian B.	N.C.	Stewart, Ruth	D.C.
Smith, Mary Elizabeth	D.C.	Stewart, Paul Margaret	Pa
Smith, Mary P.	W.Va.	Seull, Harold W. A.B. 1922, Pennsylvania State College	Ind
Smith, Raymond P. Ch.E. 1925, Lehigh University	Pa.	Seull, Harold L. B.S. in E.E. 1925, Purdue University	Calif.
Smith, Ruth Frances	Va	Stumm, Erwin Charles A.B. 1922, The George Washington University	
Smith, Virginia Hazel A.B. 1922, The George Washington University	Va		
A.M. 1922, Columbia University			
Smith, W. Leonard B.S. 1922, North Texas State Teachers College	Tex		



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# SUMMARY OF REGISTRATION

1932-33

## THE JUNIOR COLLEGE

Freshmen.....	1,045
Sophomores.....	791
Unclassified students.....	72
	<hr/>
	1,908

## COLUMBIAN COLLEGE

Juniors.....	171
Seniors.....	219
Candidates for the Master of Arts degree.....	276
Unclassified students.....	12
	<hr/>
	678

## THE GRADUATE COUNCIL

Candidates for the Doctor of Philosophy degree.....	101
	<hr/>
	101

## THE SCHOOL OF MEDICINE

First year.....	81
Second year.....	71
Third year.....	73
Fourth year.....	66
	<hr/>
	291

## THE LAW SCHOOL

First year.....	273
Second year.....	303
Third year.....	204
Candidates for the Master of Laws degree.....	32
Unclassified students.....	7
Special students.....	4
	<hr/>
	813

## THE SCHOOL OF ENGINEERING

Freshmen.....	162
Sophomores.....	81
Juniors.....	64
Seniors.....	63
Candidates for the Civil Engineer degree.....	3
Unclassified students.....	20
	<hr/>
	393

## THE SCHOOL OF PHARMACY

Candidates for degrees in Pharmacy.....	28
	<hr/>
	28



## THE SCHOOL OF EDUCATION

Juniors .....	111
Seniors .....	114
Candidates for the Master of Arts degree .....	132
Candidates for the Doctor of Education degree .....	8
Unclassified students .....	10

378

## THE SCHOOL OF GOVERNMENT

Juniors .....	23
Seniors .....	25
Candidates for the Master of Arts degree .....	5
Unclassified students .....	1

56

## THE DIVISION OF LIBRARY SCIENCE

Juniors .....	28
Seniors .....	39
Candidates for the Master of Arts degree .....	10
Unclassified students .....	19

96

## THE DIVISION OF FINE ARTS

Juniors .....	26
Seniors .....	10
Candidates for the Master of Arts degree .....	3
Unclassified students .....	5

44

## THE DIVISION OF UNIVERSITY AND EXTENSION STUDENTS

University and extension students .....	795
-----------------------------------------	-----

795

Students registered, Academic Year 1932-33 .....

5,591

Students registered, Summer Sessions 1932 .....

1,427

Total number of registrations .....

7,018

Duplicates .....

371

Total number of students registered .....

6,047

# GEOGRAPHICAL DISTRIBUTION OF STUDENTS

1932-33

Alabama.....	30	Oklahoma.....	64
Arizona.....	10	Oregon.....	18
Arkansas.....	46	Pennsylvania.....	201
California.....	40	Rhode Island.....	13
Colorado.....	28	South Carolina.....	27
Connecticut.....	72	South Dakota.....	30
Delaware.....	12	Tennessee.....	30
District of Columbia.....	3,367	Texas.....	93
Florida.....	33	Utah.....	110
Georgia.....	46	Vermont.....	13
Idaho.....	29	Virginia.....	500
Illinois.....	130	Washington.....	38
Indiana.....	80	West Virginia.....	78
Iowa.....	03	Wisconsin.....	57
Kansas.....	76	Wyoming.....	12
Kentucky.....	36	Canada.....	1
Louisiana.....	17	China.....	18
Maine.....	34	Costa Rica.....	1
Maryland.....	473	Denmark.....	1
Massachusetts.....	94	Ecuador.....	1
Michigan.....	50	France.....	3
Minnesota.....	85	Hawaii.....	3
Mississippi.....	32	India.....	2
Missouri.....	71	Japan.....	1
Montana.....	21	Panama.....	2
Nebraska.....	43	Panama.....	17
Nevada.....	7	Philippine Islands.....	19
New Hampshire.....	15	Puerto Rico.....	1
New Jersey.....	88	Scotland.....	2
New Mexico.....	17	Siam.....	2
New York.....	253	Switzerland.....	1
North Carolina.....	68	Turkey.....	1
North Dakota.....	26		
Ohio.....	108		
		Total.....	7,018

# GENERAL SUMMARY

1932-33

## TEACHING STAFF

Professors Emeritus	10
Professors	66
Professorial Lecturers	15
Clinical Professors	11
Associate Professors	26
Associates in Medicine	18
Assistant Professors	40
Lecturers	32
Instructors	32
Clinical Instructors	61
Associates	23
Fellows	10
Assistants	4
Total	374

## STUDENTS REGISTERED

The Junior College	1,908
Columbian College	656
The Graduate Council	101
The School of Medicine	201
The Law School	823
The School of Engineering	303
The School of Pharmacy	28
The School of Education	378
The School of Government	56
The Division of Library Science	66
The Division of Fine Arts	44
The Division of University and Extension Students	795
The Summer Sessions 1932	1,427
Total number of registrations	7,018
Duplicates	971
Total number of students registered	6,047

## CERTIFICATES AWARDED AND DEGREES CONFERRED

Junior Certificates	190
Bachelor of Arts	208
Bachelor of Arts in Education	70
Bachelor of Arts in Government	20
Bachelor of Arts in Library Science	30
Bachelor of Arts in Fine Arts	3
Bachelor of Architecture	5
Bachelor of Science	16
Bachelor of Science in Engineering	7



## General Summary

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Bachelor of Science in Chemical Engineering	2
Bachelor of Science in Civil Engineering	16
Bachelor of Science in Electrical Engineering	14
Bachelor of Science in Mechanical Engineering	6
Bachelor of Science in Home Economics	6
Bachelor of Science in Physical Education	3
Bachelor of Science in Pharmacy	3
Graduate in Pharmacy	6
Bachelor of Laws	158
Master of Arts	84
Master of Arts in Education	22
Master of Arts in Government	2
Master of Arts in Library Science	3
Master of Laws	2
Doctor of Medicine	58
Civil Engineer	1
Doctor of Philosophy	8
Total	952



THE SCHOOL OF MEDICINE  
1933-34





THE  
GEORGE  
WASHINGTON  
UNIVERSITY  
BULLETIN

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VOL. XXXII

No. 3

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THE SCHOOL OF MEDICINE

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WASHINGTON, D. C.

PUBLISHED IN MAY

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1875-1876



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..	..	..	..	..	..	1
2	3	4	5	6	7	8
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August

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October

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November

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1934

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February

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July

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August

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September

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October

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November

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December

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# CALENDAR OF THE SCHOOL OF MEDICINE

1933-34

Date	Days	Occasion
1933:		
September 18.....	Monday	Presession examinations
September 18-19.....	Monday and Tuesday	Registration period for the first semester
September 20.....	Wednesday	Academic year begins
October 3.....	Tuesday	Last day for late registration for the first semester
October 18.....	Wednesday	Fall Convocation
November 30-December 2	Thursday to Saturday, both dates inclusive	Thanksgiving recess
December 21-January 2	Thursday to Tuesday, both dates inclusive	Christmas recess
1934:		
January 3.....	Wednesday	Classes resumed
January 8.....	Monday	Last day for applications for degrees to be conferred in February
January 8-19.....	Monday to Friday, both dates inclusive	Preregistration period for the second semester
January 20-27.....	Saturday to Saturday, both dates inclusive	Midyear examination period
January 31-February 1	Wednesday and Thursday	Registration period for the second semester
February 2.....	Friday	Classes resumed for the second semester
February 15.....	Thursday	Last day for late registration for the second semester
February 22.....	Thursday	Midwinter Convocation. Holiday
March 30-April 4.....	Friday to Wednesday, both dates inclusive	Easter recess
May 1.....	Tuesday	Last day for applications for degrees to be conferred in June
May 25-June 2.....	Friday to Saturday, both dates inclusive	Final-examination period
May 30.....	Wednesday	Memorial Day. Holiday
June 3.....	Sunday	Baccalaureate Sermon
June 6.....	Wednesday	Commencement
September 17-18.....	Monday and Tuesday	Registration period for the first semester of the academic year 1934-35





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## GENERAL INFORMATION

### INTRODUCTORY

The School of Medicine of The George Washington University, the eleventh medical school established in the United States, opened in March 1825. The University Hospital and Dispensary were established in 1878 and made a part of the organization of the School.

The School is a member of the Association of American Medical Colleges and is one of the medical colleges which has been designated continuously as class "A" by the American Medical Association. The degrees of the School of Medicine are recognized by all State examining boards. It is one of the medical schools selected by the Secretary of War to maintain a Reserve Officers' Training Corps Unit, and it is accredited for all its work by the Combined (Royal) Medical Examining Boards in England.

### LOCATION AND ADVANTAGES

The city of Washington, with more than a half-million inhabitants, provides abundant clinical material. The University Hospital and Dispensary furnish clinical facilities and a large proportion of the materials studied in the courses in Pathology and Clinical Microscopy.

The Library of the Surgeon General's Office of the United States Army is the most complete general medical library in the world. In addition to its great collections of medical works, all leading medical periodicals of the world are available. This Library, as well as the Library of Congress, the Public Library, and the many excellent libraries of the various Government departments, is open to medical students.

The Army Medical Museum affords opportunity for studying the conditions met in military and general medicine and surgery. Its collection of anatomical and pathological specimens is unequalled by any other museum in this country. The Museum of Hygiene, the National Museum, the Smithsonian Institution, the Botanic Gardens, and the Department of Agriculture, all afford opportunities for study in Medicine and its allied sciences.

Aside from the special advantages offered for the study of Medicine, the cosmopolitan character of the city of Washington, its mild climate, its beauty, and its broad interests as the seat of the National Government, make it an ideal place for a medical student to pass four years of study.

## EQUIPMENT

*Medical School Building.*—The building housing the School of Medicine is a modern, five-story structure with lecture- and classrooms, laboratories, and students' rooms, equipped with modern improvements. A new four-story laboratory building has recently been erected adjacent to the main medical building.

*Laboratories.*—The major laboratories are for Anatomy, Biochemistry, Histology and Embryology, Physiology and Pharmacology, Bacteriology, Hygiene and Preventive Medicine, Clinical Microscopy, and Pathology. They are fully equipped to enable students to pursue adequately the laboratory courses and acquire the technical skill necessary in modern clinical and investigative work.

*Medical Library.*—The Library, with a librarian in charge, is open for study and reading from 9 a.m. to 5 p.m. and from 7 to 9 p.m. It contains a selected reference collection of more than 3,000 volumes, and provision is made to add to it the important new medical works. The principal medical periodicals are regularly received.

For purposes of advanced study and research the Library of the Surgeon General of the Army is available to all students and teachers through a service maintained by the Medical School Library.

## CLINICAL FACILITIES

*The University Hospital and the University Dispensary.*—The Hospital and Dispensary are part of the educational equipment of the University. They are adjacent to the School of Medicine and are controlled by the Faculty of Medicine. The Dispensary has a large out-patient service in all departments, to which several thousand visits are made annually. The Faculty believes that clinical teaching should be thoroughly systematized. To this end, all clinics are under the supervision of the Assistant Dean, who is also Medical Director of the Hospital. This insures the highest possible utilization of available clinical material for teaching purposes and proper supervision of clinicians and students; it brings the individual student into direct contact with patients and requires him to do under authoritative supervision the clinical and laboratory work necessary for diagnosis and treatment; and it permits proper interpretation of the conditions occurring during the progress of cases and promotes the keeping of adequate records. Clinical and clinicopathological conferences are held in which the history of cases, the physical findings, laboratory records, and the post-mortem pathology when available, are presented and correlated. The Assistant Dean assigns the students to the different clinics, and supervises the records, the attendance, and the instruction of students. Third-year students are assigned in rotation by sections for clinical instruction in the Dispensary.

**Gallinger Municipal Hospital.**—Clinical instruction is available in all branches of Medicine. A great wealth of clinical material is afforded in this hospital by ordinance of the municipal authorities of the District of Columbia, whereby one half of the patients are assigned for treatment and clinical teaching to members of the Faculty of this School, nominated by this University.

**Children's Hospital.**—Clinical instruction in Pediatrics and General and Orthopedic Surgery.

**Emergency Hospital and Central Dispensary.** Clinical instruction in Medicine, Surgery—particularly in emergency surgery, fractures, and dislocations—Dermatology, and Orthopedics.

**Garfield Memorial Hospital.**—Clinical instruction in Medicine, including contagious diseases, Surgery, Gynecology, and Obstetrics.

**Providence Hospital.**—Clinical instruction in Medicine and Surgery.

**St. Elizabeth's Hospital.**—Clinical instruction in mental and nervous diseases, Medicine, Surgery, post-mortem work, and Gross Pathology. This hospital, with four thousand beds, is maintained by the United States Government. The psychiatric clinic is one of the largest in the world.

**The Episcopal Eye, Ear, Nose, and Throat Hospital.**—Clinical instruction in Ophthalmology, Otology, Laryngology, and Rhinology.

#### RESERVE OFFICERS' TRAINING CORPS, U. S. ARMY, MEDICAL UNIT

A Medical Unit of the Reserve Officers' Training Corps is established in this School by authority of the Secretary of War, and an officer of the Medical Corps of the Army is detailed to the University for supervision and instruction of the students in the Unit.

Membership in the Unit is voluntary and is open to any physically fit male student who is a citizen of the United States. The instruction is divided into two courses, the basic and the advanced. Students who satisfactorily complete the basic course may, up to the quota allowed by the War Department, and if they choose, enter the advanced course. Students who enter the advanced course receive pay from the Government amounting to approximately \$200. They are obligated to complete the course and to attend one summer camp of instruction for six weeks, for which the students will receive travel allowances, pay at the rate of \$21 a month, and will be provided with all camp equipment, uniforms, and medical attention. Students who successfully complete the course are recommended for commission in the Medical Section, Officers' Reserve Corps, provided they desire appointment. Selected graduates are given preference in appointment for internship in Army General Hospitals, where they receive the pay and allowance of a First Lieutenant of the Medical Corps.



### ADMISSION

The minimum requirement for admission is two years of college work, totaling at least sixty semester-hours, from an accredited college of arts and sciences.

### SPECIFIC EDUCATIONAL REQUIREMENTS

#### SECONDARY-SCHOOL REQUIREMENTS

Of the fifteen secondary-school units required, three must be in English, two in one foreign language (ancient or modern), one in Algebra, one in Geometry, one in History, and one in Science (Botany, Chemistry, Physics, or Zoology). Eleven of the units offered must be in English, foreign language, Mathematics, Science, and History. No candidate will be accepted with any condition in secondary-school work.

#### PREMEDICAL-COLLEGE REQUIREMENTS

1. Chemistry, twelve semester-hours as follows: (a) Eight semester-hours of General Inorganic Chemistry, of which at least four semester-hours are laboratory work. Qualitative Analysis may be counted as General Inorganic Chemistry. (b) Four semester-hours of Organic Chemistry, of which two semester-hours are laboratory work.
  2. Physics, eight semester-hours, of which at least two semester-hours are laboratory work. It is recommended that this course be preceded by one in Trigonometry.
  3. Biology, eight semester-hours, of which at least four semester-hours are laboratory work. This requirement may be satisfied by a course of eight semester-hours in either General Biology or Zoology, or by a course of four semester-hours each in Zoology and Botany, but not by Botany alone.
  4. English composition and literature, six semester-hours. The usual introductory college course, or its equivalent. The student should develop facility in English expression.
  5. Modern foreign language. A reading knowledge, preferably of French or German.
  6. Electives. It is recommended that the remaining semester-hours required include: (a) Comparative Vertebrate Anatomy; (b) Qualitative and Quantitative Chemistry; (c) Social Science and Psychology.
- No student will be accepted with any condition in college work.

#### APPLICATION FOR ADMISSION

1. Forms upon which to submit records of secondary-school and college work will be furnished on request.
- All credentials submitted are to be made out by the proper school and college authorities and mailed by them to the Director of Admissions.

The George Washington University, 2031 G Street NW., Washington, D. C. Photostat copies of credentials without the original signature of the certifying authority will not be accepted.

Each form must cover only work done at the school or college which fills out the form.

2. A recent photograph, with signature, is required of each applicant.

3. As the number of qualified applicants for admission to the School each year far exceeds its capacity, those who wish to insure admission are urged to secure from the schools and colleges attended, completely compiled premedical credentials and forward them for evaluation as long a time as possible before the opening of the School of Medicine in September.

#### ADVANCED STANDING

Students who have satisfactorily attended one or more terms at any other class-A medical school and who have the necessary preliminary educational requirements, may be admitted to advanced standing. No student, however, will be admitted to advanced standing in the senior class.

#### LEGAL STANDARDS

The laws relating to the preliminary educational qualifications required of physicians differ in many of the States, and candidates are advised that if they meet the premedical and other requirements of this School they will be able to comply with the legal demands of all State Examining Boards in the United States.

#### REGISTRATION AND ADMISSION TO CLASSES

Registration in the School of Medicine is for a period of one semester at a time. Acceptance by the School of a student's fees does not in any way obligate the School to accept the student for any subsequent semester, and the right is reserved to drop any student from the School whenever, in the interest of the student or the School, the Faculty deems it advisable to do so.

All matriculations and registrations must be completed within three days after the opening of the session.

All students are admitted to classes on presentation of the Comptroller's ticket issued when all required fees have been paid.

#### FEES AND FINANCIAL REGULATIONS

The following fees are prescribed by statute

Enrollment fee, for each semester or for any part thereof.....	\$8.00
Textbook fee, per annum.....	484.00
Fee for special examinations, for each subject.....	5.00
Graduation fee.....	20.00

#### THE UNIVERSITY FEE

Payment of the University fee, charged all students, secures to them the following student-activity privileges: (1) gymnasium privileges, including participation in intra-university athletic sports, and the use of the University tennis courts; (2) the *University Herald*, the official student newspaper, which is issued weekly; (3) admission to home athletic contests, unless otherwise specified; (4) admission to University debates; (5) the services of the Department of Health Administration.

#### PAYMENT OF FEES

All fees are payable at the Office of the Comptroller of the University, 2933 G Street NW. No student is permitted to complete registration or to attend classes until all fees are paid.

On account of the many applications for admission, and as the size of the freshman class is limited, places can be reserved only for those qualified applicants who remit a deposit of \$100, which will be credited toward the tuition of the first semester. Should unusual circumstances arise whereby the matriculant is unable to attend, this initial payment, less a charge of \$25 for registration, transfer, etc., will be returned up to one month before the opening of the session, or thereafter provided the place is satisfactorily filled.

Fees due at registration must be paid within three days after the opening of the session.

Students will be required to pay for injury to apparatus and other college property. All breakage and loss not directly traceable to an individual student is assessed pro rata, and any unforfeited balance of the breakage deposit will be returned at the expiration of the course.

Fees for each semester (including the University fee) are \$200, payable in advance.

#### COST OF TEXTBOOKS AND STUDENT EQUIPMENT

The minimum cost of necessary textbooks and student equipment (microscope, drawing materials, glass slides, clinical thermometer, stethoscope, hemocytometer, etc.) is approximately as follows: first year, \$150; second year, \$87; third year, \$60; fourth year, \$60; total, \$357.

#### LIVING ACCOMMODATIONS

The George Washington University is an urban institution. It maintains no dormitories. For the benefit of nonresident students registers of rooms which have been inspected and approved are kept in the office of the Director of Women's Personnel Guidance, where inquiries in respect to housing facilities should be addressed. Satisfactory accommodations can be found near the University.



Single rooms usually range in price from \$15 to \$25 a month, and double from \$12 to \$22 a month a person. Rooms with board, including breakfast and dinner, cost from \$25 to \$45 a month a person.

It is advisable for students to reach the University two or three days before the opening of the term in order that they may become established in satisfactory living quarters before class work begins. Renting by mail is unsatisfactory. Lists of houses will be mailed on request, but students are advised to make personal inspection before engaging rooms.

#### WOMEN STUDENTS

All women students under twenty-three years of age must have their residences approved by the Director of Women's Personnel Guidance, unless they are living with family or relatives. Registration is not complete until such approval is given.

#### SCHOLARSHIPS, PRIZES, LOAN FUNDS

The John Hitz Metzgerott Scholarship is available to students in the School of Medicine. The Ordronaux Prize of \$100 is awarded to the member of the graduating class of the School of Medicine who has completed the four-year medical course with the highest scholastic standing. The following loan funds are available to students in the School of Medicine: Daughters of the American Revolution Loan Fund; Harmon Foundation Loan Fund; Henry Strong Educational Foundation Loan Fund; and the University Loan Fund.

For particulars regarding scholarships, prizes, and loan funds, see pages 6-68 of the University catalogue.

#### DEPARTMENTS OF INSTRUCTION

The work of the School is organized under the following departments: Anatomy; Bacteriology, Hygiene, and Preventive Medicine; Biochemistry; Dermatology and Syphilology; Medicine; Neurology; Obstetrics and Gynecology; Ophthalmology; Oto-rhino-laryngology; Pathology and Experimental Medicine; Pediatrics; Pharmacology and Therapeutics; Physiology, Psychiatry, Surgery, and Urology.

#### CLINICS

Courses of clinical instruction are included in the announcements of the clinical departments. The Assistant Dean prepares schedules of clinics and of student section assignments to the various hospitals and dispensaries.

### GENERAL REGULATIONS

*Students in the School of Medicine are subject to, and are expected to familiarize themselves with, the general University regulations stated on pages 48, 50 and 69, 74 of the University Catalogue.*

#### ATTENDANCE

Absence consists in being away from a class or clinic during a scheduled period, entering after the class or clinic has begun, or leaving before either is dismissed.

Absence is not allowed unless an excuse is obtained from the Dean or the instructor.

Application for excuse for absence due to sickness must be accompanied by a certificate signed by the attending physician.

For every unexcused absence a department will deduct one half of 1 per cent from the student's final grade in the subject involved.

#### GRADES

Proficiency in all subjects is marked on a basis of *A* (90-100); *B* (80-90); *C* (75-80); *D* (65-74), condition; *F* (below 65), failure; *I*, incomplete. The passing grade in each subject is *C*.

#### ADVANCEMENT

Any student who has satisfactorily completed the required work of the first, second, or third year of the course and has passed all examinations is eligible for advanced standing, if approved by the Scholarship Committee. No student may be enrolled for the clinical work of the third and fourth years without first having qualified in all the premedical sciences.

#### FAILURE

A student who has failed in any subject will not be advanced until such failure is removed and then only by authority of the Scholarship Committee. All conditions must be removed at the next make-up examination period provided for this purpose.

#### EXAMINATIONS

Examinations may be written, oral, or practical, and will be held at the end of the first semester and at the end of the academic year.

A student who fails to appear at a regularly scheduled final examination will not be examined until the next regular examination, except by special permission of the Scholarship Committee. For make-up examinations to remove conditions, a fee of \$5 will be charged for each subject.

**CHANGE OF COURSE AND WITHDRAWAL**

Course change and withdrawal are not allowed except upon authority of the Scholarship Committee.

To withdraw from a course a written request approved by the Dean is required. Withdrawal permits and course certificates are issued only to those who have a clear financial record with the University.

**ELIGIBILITY FOR STUDENT ACTIVITIES**

In order to be eligible to represent the University in any intercollegiate nonathletic activity a student must be a regularly enrolled candidate for a degree, registered for at least nine hours, and not on probation. In order to participate in other student activities a student must be registered for at least two courses and not on probation.

A detailed statement of the regulations governing participation in intercollegiate athletic contests may be secured from the Secretary of the Faculties.

Before a student may participate in any activity he must be certified as eligible by the Registrar of the University. The Faculty adviser in charge of each activity shall submit to the Registrar a list of all student candidates for participation in that activity. For the purpose of determining eligibility under these rules, a **student's quality-point index** will be calculated at the end of each semester, irrespective of the amount of work carried.

**SPECIAL UNDERGRADUATE AND GRADUATE ADVANTAGES  
IN THE SCHOOL OF MEDICINE****HEALTH ADMINISTRATION**

The payment of the University fee entitles students to health services hereinafter described. Through reports from the students and University officials, the University attempts to keep informed as to all cases of illness among its students.

Medical privileges include: (1) the physical examination of all students entering from secondary schools; (2) three visits by the University physician or surgeon, office or home, in any one illness, exclusive of a specialist, surgical operation, laboratory, or X-ray examination; (3) hospitalization, including board, medicine, and nursing in the University Hospital for not more than two weeks during a school term—the necessity to be determined by the **Director of Health Administration**. The duration of hospitalization period (maximum, two weeks) is also to be determined by the **Director of Health Administration**.

This medical benefit does not include treatment for illness or disability incurred previous to the University term or prior to payment of the University registration fee.



Students are allowed, if they so desire, to engage physicians and nurses of their own choice, but when they do so they will be responsible for the fees charged.

Rules. (1) The Director of Health Administration is empowered to limit or deny the medical benefits where, in his discretion, a student has, by his misconduct or breach of the rules of the University, made himself ineligible. (2) the Director of Health Administration has authority to determine the necessity and length of hospitalization. (3) students who have severed their connection with the University are ineligible for medical benefits. (4) students intending to train for athletic teams are required to pass a careful examination at the beginning of each semester. (5) the above regulations apply during the Summer Sessions of the University.

#### PHYSICAL EXAMINATIONS

All first-year students are given a comprehensive physical examination by the Department of Health Administration upon admission to the School of Medicine. The students are informed of the findings and advised regarding such measures as will tend to maintain a high standard of health.

#### HOSPITAL APPOINTMENTS

Interns are appointed annually in the University Hospital. Similar appointments are made to graduates and undergraduates of this School in the following hospitals of the District: Casualty Hospital; Children's Hospital; Columbia Hospital for Women; Emergency Hospital; Episcopal Eye, Ear, Nose, and Throat Hospital; Gallinger Municipal Hospital; Garfield Memorial Hospital; Providence Hospital; St. Elizabeth's Hospital; Sibley Hospital; Tuberculosis Hospital; and Walter Reed United States Army General Hospital.

Students who, after graduation, desire internships in hospitals outside the District of Columbia, should apply directly to the institutions which they wish to enter. A list of hospitals approved for intern training is published annually in the *Journal of the American Medical Association*, and a copy of the list may be consulted in the office of the Dean.

#### COMMISSION ON LICENSURE, DISTRICT OF COLUMBIA

Graduates who wish to take the examinations of the Commission on Licensure, District of Columbia, or desire to use the District license for reciprocity with the States, should apply to the Secretary, Commission on Licensure, Healing Arts Practice Act, District Building, Washington, D. C.

#### UNIVERSITY MEDICAL SOCIETY

The George Washington University Medical Society was established in 1905. All alumni and members of the Faculty are eligible for membership

on election. Meetings of the society are held in the School of Medicine on the third Saturday evening of each month from October to May. Senior students are required to attend the meetings of this society.

### COURSES OF INSTRUCTION

The courses of instruction are listed in alphabetical order beginning on page 37.

### THE DEGREE OF DOCTOR OF MEDICINE

Upon the satisfactory completion of the requirements of the School of Medicine, the degree of Doctor of Medicine is conferred. The degree of Doctor of Medicine given by this University is recognized by all State Examining Boards in the United States.

### REQUIREMENTS FOR THE DEGREE

Every candidate for graduation with the degree of Doctor of Medicine must be at least twenty-one years of age, of reputable character, and free of all indebtedness to the University. He must have satisfied the admission requirements, completed satisfactorily not less than four years of study as a matriculated student in Medicine, completed all required courses, and passed satisfactorily all prescribed examinations. *Particular attention is called to the statement of graduation requirements on pages 71-73 of the University catalogue.*

### CURRICULUM REQUIREMENTS

The curricula leading to the degree are: (a) four-year curriculum leading to the degree of Doctor of Medicine; (b) a combined seven-year curriculum leading to the degrees of Bachelor of Arts and Doctor of Medicine.

### COMBINED ARTS AND MEDICINE CURRICULUM

*Registration.* Candidates register in the Junior College for the freshman and sophomore years of the premedical curriculum and in Columbian College for the junior year.

*Admission.* Applicants must meet the premedical-college requirements outlined under "Admission", above.

*Course of Study.* Candidates must complete at least ninety-four semester-hours of prescribed college work, not including Physical Education (at least thirty semester-hours and one year of residence must be completed in Columbian College), and the first year of the medical curriculum. On satisfactory completion of the work outlined above, the student will be recommended for the degree of Bachelor of Arts. Upon

completion of the fourth year in the medical curriculum the student becomes eligible for the degree of Doctor of Medicine.

In certain selected cases where students have completed three years of work in an approved college of arts, other than The George Washington University, with an excellent scholastic record, such students may be recommended to the University by the Faculty of Medicine for the degree of Bachelor of Arts in the University at large upon the completion of the first year in Medicine, provided a high standard of scholarship is maintained in the School of Medicine.

#### PLAN OF INSTRUCTION

Each year of the medical curriculum is divided into two semesters of sixteen weeks each. The curriculum for the degree of Doctor of Medicine must begin with the fall semester.

Under the order of the work there is a coordination in the offerings of the several departments which enables the student to concentrate his attention upon the subject materials in such a way that they can be readily understood and recognized as integrated parts of a unified training. The salient features in the method of instruction are thorough laboratory training, demonstrations, and clinical teaching, with recitations and lectures to clarify the many problems presented. The clinical material in the various hospitals and out-patient departments is utilized to the fullest extent for both clinical instruction and laboratory work.

#### HONORS

Candidates who have completed the four-year medical course with an average grade of *A* may be recommended for graduation "with distinction."

For catalogues, application blanks, and further information, address the Director of Admissions, The George Washington University, 2031 G Street NW., Washington, D. C.





## COURSES OF INSTRUCTION

On the following pages of this bulletin, under the alphabetically arranged names of the departments of instruction, are listed the courses of instruction offered by the School of Medicine in the academic year 1913-14. The courses here listed are subject to some slight change. The University reserves the right to withdraw any course announced.

### EXPLANATION OF COURSE NUMBERS

The number which precedes the name of a course indicates the semester in which that course is offered. An odd number indicates that the course is offered in the first semester, an even number, that it is offered in the second semester, and a double number (e.g., 34-44), that it begins in the first semester and continues in the second.

First-year courses are numbered from 100 to 200, second-year courses, from 201 to 300, third-year courses, from 301 to 400; and fourth-year courses from 401 to 500.

## ANATOMY

George Bain Jenkins, M.D., *Professor of Anatomy, Executive Officer.*  
 Othmar Charles Solnitzky, Ph.D., M.D., *Assistant Professor of Anatomy.*  
 William Henry Waller, Ph.D., *Instructor in Anatomy.*  
 John Ralston Pate, A.B., B.S., M.D., *Teaching Fellow in Anatomy.*

- |       |                                                                                                                                                                                                                      |                   |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 101   | <b>Gross Anatomy</b><br>This course consists of instruction in osteology, followed by the careful dissection and study of the entire body. Sixteen hours a week.                                                     | Jenkins and Staff |
| 103   | <b>Histology and Embryology</b><br>This course includes the histogenesis and microscopic structure of the tissues and organs of the human body. Fifteen hours a week.                                                | Jenkins and Staff |
| 104   | <b>Regional Anatomy</b><br>A correlation course in which cross sections, prepared specimens, and models are employed to study the developmental, gross, and microscopic details of body structure. Six hours a week. | Jenkins and Staff |
| 105   | <b>Microscopic Anatomy Seminar (elective)</b><br>Hours and credits to be arranged.                                                                                                                                   | Jenkins           |
| 107   | <b>Comparative Anatomy (elective)</b><br>Hours and credits to be arranged.                                                                                                                                           | The Staff         |
| 201   | <b>Functional and Surgical Anatomy</b><br>A course in applied Anatomy taught in conjunction with the clinical staff. Two hours a week.                                                                               | The Staff         |
| 203 4 | <b>Research</b><br>Hours and credits to be arranged.                                                                                                                                                                 | Jenkins and Staff |
| 203   | <b>Microtechnic</b><br>Hours and credits to be arranged.                                                                                                                                                             | The Staff         |



## BACTERIOLOGY, HYGIENE, AND PREVENTIVE MEDICINE

Earl Baldwin McKinley, A.B., M.D., *Professor of Bacteriology, Executive Officer.*

Roscoe Roy Spencer, A.B., M.D., *Associate Professor of Hygiene and Preventive Medicine.*

Leland Wilbur Parr, Ph.D., *Associate Professor of Bacteriology.*

John Harold Hanks, Ph.D., *Assistant Professor of Bacteriology.*

Elizabeth Verder, Ph.D., *Assistant Professor of Bacteriology.*

Alden Franklin Roe, Sc.D., *Instructor in Bacteriology.*

### 111 *General Bacteriology* (3)

Hanks

A study of the fundamental facts of Bacteriology, including discussions of the industrial and hygienic applications of the science. Several groups of bacteria, yeasts, and molds are studied in the laboratory. Mon., Wed., and Fri., 9 to 11 a.m.

### 112 *Bacteriology and Immunology*

McKinley, Parr, Hanks, Roe

This course consists of both lectures and laboratory work and is designed to give the student a thorough grounding in bacteriological technique, upon the basis of which a comprehensive study is made of all the important pathogenic micro-organisms. The course stresses those phases of Bacteriology and Immunology directly related to medical problems concerning infectious diseases and their pathology, diagnosis, and treatment. Practical immunological and serological technique is also dealt with. Attention is given to certain of the helminths and protozoan parasites. The filterable viruses and rickettsiae are also considered. Eleven hours a week.

### 211 *Immunology and Serology* (elective)

Hanks, Roe

Hours and credits to be arranged.

### 212 *Hygiene*

Spencer

A course of lectures and field demonstrations dealing with problems of personal and community hygiene such as water supply, sewage disposal, food supply, infant welfare, essentials of personal health maintenance, tuberculosis, insect borne infections, vital statistics, and medical economics. Three hours a week.

### 213 *Filterable Viruses*

McKinley, Verder

A survey of methods for the study of filterable viruses and of

the principal virus diseases. Prerequisite: Bacteriology 112  
Hours and credits to be arranged.

- 214 *Epidemiology and Vital Statistics (elective)* Spencer  
One hour a week.

- 301 *Preventive Medicine and Public Health\** McKinley, Spencer  
A lecture course devoted to a historical survey of the development of the modern public-health movement, the physician's relation to public-health problems, prevention and control of communicable diseases, mortality and morbidity statistics, and modern public-health practices by Federal, State, municipal, and county health units. Two hours a week.

- 302 *Infectious Diseases (elective)* The Staff  
Clinical aspects of Bacteriology and prevention of the common infectious diseases. One hour a week.

- 303-4 *Research in Bacteriology* The Staff  
Hours and credits to be arranged.

- 305 *Research in Hygiene and Preventive Medicine* The Staff  
Hours and credits to be arranged.

- 309-10 *Staff Seminar* The Staff  
Biweekly.

\*The Department arranges and correlates the preventive aspects of medicine with other major departments in the School of Medicine in order to broaden the students' training in this important field.

## BIOCHEMISTRY

Vincent du Vigneaud, Ph.D., *Professor of Biochemistry, Executive Officer.*

Joseph Hiram Roe, Ph.D., *Professor of Biochemistry.*

Jesse Harmon, Ph.D., *Instructor in Biochemistry.*

Hubert Scott Loring, Ph.D., *Instructor in Biochemistry.*

Oliver John Irish, A.M., *Instructor in Biochemistry.*

Helen Marie Dyer, A.M., *Teaching Fellow in Biochemistry*

### 54 *Biochemistry of Foods and Nutrition (4)* Dyer

Lecture and laboratory course designed particularly for students of the Department of Home Economics. Tues. and Thurs., 2 to 5 p.m.

### 141-42 *Biochemistry (4-4)* Roe, Dyer

Lecture and laboratory course for Columbian College students, similar in general content to Biochemistry 144 and 251. Mon. and Wed., 9 a.m. to 12.

### 144 *Biochemistry* du Vigneaud, Roe, and Staff

Lecture course dealing with the Biochemistry of proteins, fats, and carbohydrates, digestion, tissues, intestinal putrefaction, and feces; blood, milk, and urine. Physical-chemical topics such as osmosis, colloids, and enzyme kinetics are brought out in their relationship to the above subjects. Attention is also given to various phases of intermediary metabolism, to the endocrines, and to the so-called deficiency diseases. Clinical aspects of the subject are stressed. Two hours a week.

### 146 *Biochemistry Seminar (elective)* du Vigneaud, Roe, and Staff

Seminar course for freshmen amplifying the lectures in Biochemistry 144 and taking up in greater detail certain aspects of the field. One hour a week.

### 251 *Advanced Biochemistry* du Vigneaud, Roe, and Staff

Lecture and laboratory course continuing the work of Biochemistry 144. The chemistry of proteins, fats, and carbohydrates, and digestion, tissue chemistry, hydrogen-ion concentration, and methods of quantitative analysis are studied in the laboratory. Methods of analysis of urine, blood, gastric contents, and feces which are aids in the diagnosis of diseases and metabolic disturbances are particularly stressed in the laboratory, and the interpretation of the findings by these methods



is thoroughly dealt with in the lecture work. The lectures are also designed to correlate the laboratory work with the previous semester's lecture work and to present advanced biochemical material. Two hours of lectures and nine hours of laboratory work a week.

252 *Biochemical Preparation:*

Hours and credits to be arranged.

The Staff

254 *Chemistry of the Internal Secretions (1)*

Hours and credits to be arranged.

du Vigneaud

255-56 *Biochemical Literature (1-1)*

Seminar course on the current literature in Biochemistry, mainly for graduate students, but open to a limited number of specially qualified medical students. Hours to be arranged.

du Vigneaud

257-58 *Staff Seminar*

Biweekly.

The Staff

259 *Research in Biochemistry*

Hours and credits to be arranged.

du Vigneaud and Staff

## DERMATOLOGY AND SYPHILOLOGY

Charles Augustus Simpson, M.D., *Professor of Dermatology and Syphilology, Executive Officer.*

Harry Ford Anderson, M.D., *Associate Professor of Dermatology and Syphilology.*

Herman Eugene Kittredge, M.D., *Clinical Instructor in Dermatology and Syphilology.*

George William Creswell, A.B., M.D., *Clinical Instructor in Dermatology and Syphilology.*

Theodore Claremont Chen Fong, M.D., *Clinical Instructor in Dermatology and Syphilology.*

### 186 Clinic

The Staff

Children's Hospital, one section, one hour a week for five weeks; Emergency Hospital, one section, one and one-half hours twice a week; University Hospital, one section, one hour a week.

### 387 Dermatology and Syphilology

Simpson

Didactic lectures and demonstration of the most common skin diseases in all their manifestations, and general and cutaneous syphilis, with special emphasis on its treatment. Two hours a week.

### 388 Congenital Syphilis

Simpson

Lectures and demonstration of eye, bone, teeth, and skin changes caused by congenital syphilis, with its treatment. One hour a week for eight weeks.

### 389-90 Neurosyphilis

Fong

Didactic lectures on the subject of syphilis of the brain and spinal cord, with special emphasis on paresis and tabes, and including treatment. Venereal therapy is also thoroughly discussed. One hour a week for eight weeks.

### 477-78 Neurosyphilis

Fong

The clinical application of Dermatology and Syphilology 389-90. St. Elizabeth's Hospital, one hour a week for six weeks.

### 479-80 Congenital Syphilis

The Staff

The clinical application of Dermatology and Syphilology 388. Children's Hospital, one section, two hours a week.

## MEDICINE

- Walter Andrew Bloedorn, A.M., M.D., *Professor of Medicine, Executive Officer.*
- William Johnston Mallory, A.M., M.D., *Professor of Medicine.*
- Coursen Baxter Conklin, A.M., M.D., *Clinical Professor of Medicine.*
- Frank Adelbert Hornaday, M.S., M.D., *Assistant Professor of Medicine.*
- Charles Robert Lee Halley, A.B., M.D., *Associate in Medicine.*
- John Alton Reed, A.B., M.D., *Associate in Medicine.*
- Watson William Eldridge, M.D., *Associate in Medicine.*
- Stuart Oliver Foster, A.B., M.D., *Associate in Medicine.*
- Herman Solomon Hoffman, A.B., M.D., *Associate in Medicine.*
- John Minor, A.B., M.D., *Associate in Medicine.*
- Maurice Protas, A.B., M.D., *Associate in Medicine.*
- Albert Earle Conradis, A.B., M.B.A., LL.B., *Associate in Medical Jurisprudence.*
- Irving Brotman, M.D., *Clinical Instructor in Medicine.*
- Paul Frederick Dickens, B.S., M.D., *Clinical Instructor in Medicine.*
- William LeRoy Dunn, A.M., M.D., *Clinical Instructor in Medicine.*
- Harry Friedenbergl, A.B., M.D., *Clinical Instructor in Medicine.*
- Bernard Lauriston Hardin, jr., A.B., M.D., *Clinical Instructor in Medicine.*
- Robert Howe Harmon, A.B., M.D., *Clinical Instructor in Medicine.*
- Marvin McDugald McLean, M.D., *Clinical Instructor in Medicine.*
- Harry Arnold Hull McNitt, A.M., M.D., *Clinical Instructor in Medicine.*
- Nicholas Athanasios Mandelos, M.D., *Clinical Instructor in Medicine.*
- George Arnold Holm, B.S., M.D., *Clinical Instructor in Medicine.*
- Raymond Wilkins Murray, A.B., M.D., *Clinical Instructor in Medicine.*

### 122 Introductory Medical Clinics (elective)

This course is given as part of a course on introductory medical and surgical clinics. Two hours a week.

### 315-16 Dispensary Clinics

Well-organized group clinical instruction is given in the dispensaries of the University, Emergency, and Providence Hospitals. The student is assigned cases to be thoroughly studied; and at the conclusion of this study each case is reviewed in its entirety for him. Daily

### 317-18 General Medicine

A systematic course of lectures designed to cover general aspects



of medical disease in all its phases, including therapeutics. Four hours a week.

- 319 *Medical Jurisprudence* Conradis  
Lectures on the rights and obligations of physicians, both legal and ethical, and on the legal problems with which the physician is brought into contact. One hour a week for eleven weeks.

- 320 *Tropical Medicine (elective)* The Staff and Visiting Lecturers  
This course consists of didactic lectures and demonstrations of the more common tropical diseases, with emphasis on their practical application to general medical practice. One hour a week.

- 321 *Physiotherapy (elective)* Hoffman  
This course is a series of lectures and demonstrations of the fundamentals of physical treatment and their application to general medical diseases. One hour a week for five weeks.

- 322 *Radiology and Radiotherapy (elective)* The Staff  
One hour a week

- 25-26 *Physical Diagnosis* Conklin and Staff  
This course, which is designed to cover the entire subject of physical diagnosis, consists of section demonstrations and practice on the normal and abnormal subject. Four hours a week.

- 406 *Radium and Radium Therapy (elective)* The Staff  
One hour a week.

- 305-8 *Ward Walks* The Staff  
Sections assigned to the University and Emergency Hospitals are taken for ward walks by the visiting physicians and their respective staffs in the course of their usual rounds. The student has an excellent opportunity to observe the actual management of patients. Two sections, one hour three times a week.

- 409-10 *Clinics* Bloedorn and Staff  
In these clinics the usual as well as the more rare diseases are taken up and discussed from the point of view of etiology, diagnosis, and treatment, with special emphasis upon differential diagnosis and the demonstration of clinical abnormalities as found in the various morbid processes. Gallinger Hospital four sections, one and one-half hours three times a week.

- 411-12 *Clinical Clerkship* Foster, Chase, Halley  
The student is assigned a case which he is required to work up thoroughly, and inasmuch as the student's histories are

generally accepted for hospital records, he is under strict supervision. Gallinger Hospital, four sections, two and one-half hours three times a week; Emergency Hospital, two sections, two hours three times a week; University Hospital, two sections, two hours three times a week; St. Elizabeth's Hospital, one fourth of the class, two hours a week.

413-14 *Clinical Pathological Conference (lectures)*

This course is designed to acquaint the students with the proper correlation of the clinical and post-mortem findings. Cases are described in detail from a clinical point of view, and the post-mortem findings are then thoroughly demonstrated, both grossly and with lantern slides. One hour a week.

The Staff

## MILITARY SCIENCE AND TACTICS

Thomas Dupuy Woodson, M.D., Lieutenant Colonel, Medical Corps, United States Army; Professor of Military Science and Tactics.

397-98 *Military Science and Tactics*

Woodson

Advanced medical course. Physical examination of masses as employed in the Army; food and its relation to disease; water and its relation to disease; prevention and control of communicable diseases from the military standpoint; sanitation in field and garrison. One hour a week.

487-88 *Military Science and Tactics*

Woodson

Advanced medical course. Service in the O. R. C.; military hospitals and hospitalization in war; medical and surgical diseases peculiar to war; medical aspects of chemical warfare; aviation medicine; medical aspects of mobilization. Inspection of dairies, ice-cream plants, and packing houses. Methods used by the Army in selecting meats and meat products. Regulations concerning the slaughtering and preparation of meat and meat products. One hour a week.



## NEUROLOGY

Walter Freeman, Ph.D., M.D., *Professor of Neurology, Executive Officer*  
 Karl Herman Langenstrass, M.D., *Associate Professor of Neuropathology*  
 Herbert Hermann Schoenfeld, M.D., *Associate in Neurology*  
 Hyman David Shapiro, M.D., *Clinical Instructor in Neurology*

356 *Neurology* Freeman  
 Systematic lectures with moving pictures and lantern slides illustrating the chief neurologic syndromes and their anatomic bases. One hour a week for eight weeks

358 *Neuropathology (elective)* Freeman and Staff  
 Individual work in the study of the diseased brain. Preparation of sections, mounting of specimens, dissection of centers and tracts, modeling, reconstructions. Laboratory of Neurology and Blackburn Laboratory, hours to be arranged. The course is limited to two students who have previously shown special aptitude in laboratory work. Practically, this will mean devoting at least six weeks during the summer following the second year to work in general pathology at Blackburn Laboratory, subject to approval by the Superintendent, St. Elizabeth's Hospital.

445 *Neurosurgery (elective)* Schoenfeld  
 Lectures and clinical demonstrations in surgery of the brain, spinal cord, and peripheral nerves. Emphasis is laid upon fundamentals and upon the possibilities of surgery in the relief of symptoms. One hour a week.

446 *Neurology (elective)* Freeman and Staff  
 Individual instruction in the niceties of neurologic diagnosis in the ward, clinic, and laboratory, attendance at Neurologic Staff Conferences, Neuropathologic Sessions, Clinicopathologic Conferences. Ten hours a week at Gallinger and St. Elizabeth's Hospitals. Limited to six students.

447-48 *Clinical Neurology* Freeman and Staff  
 Lectures and demonstrations of patients illustrating the diagnosis and treatment of nervous disorders. The vast material of St. Elizabeth's Hospital is drawn upon not only for the commoner disorders, but also for some of the unusual syndromes. One hour a week.

449-50 *Neurologic Examinations*

**Freeman and Staff**

Practical instruction in the examination of patients presenting nervous diseases. Each student is required to perform a detailed examination of six patients. St. Elizabeth's Hospital, one fourth of the class, two hours a week.

## OBSTETRICS AND GYNECOLOGY

Radford Brown, M.D., *Professor of Obstetrics and Gynecology, Executive Officer.*

Howard Francis Kane, A.B., M.D., *Professor of Obstetrics and Gynecology.*

Elijah White Titus, Ph.D., M.D., *Clinical Professor of Obstetrics and Gynecology.*

Jacob Kotz, M.D., *Clinical Professor of Obstetrics and Gynecology.*

Richard Lee Silvester, M.S., M.D., *Associate in Obstetrics and Gynecology.*

Henry Lauran Darner, A.B., M.D., *Associate in Obstetrics and Gynecology.*

William Preston Haynes, A.B., M.D., *Associate in Obstetrics and Gynecology.*

George Nordlinger, A.B., M.D., *Associate in Obstetrics and Gynecology.*

Herbert Percy Ramsey, A.B., M.D., *Associate in Obstetrics and Gynecology.*

William Raymond Thomas, M.D., *Associate in Obstetrics and Gynecology.*

Joseph Harris, A.B., M.D., *Associate in Obstetrics and Gynecology.*

Laurence Lee Cokerille, M.D., *Clinical Instructor in Obstetrics and Gynecology.*

Clayton Howard Hason, M.D., *Clinical Instructor in Obstetrics and Gynecology.*

Henry John Russell McNitt, B.S., M.D., *Clinical Instructor in Obstetrics and Gynecology.*

Bernard Notes, M.D., *Clinical Instructor in Obstetrics and Gynecology.*

Helen Gladys Kain, B.S., M.D., *Clinical Instructor in Obstetrics and Gynecology.*

Esther Alsylvia Nathanson, A.B., M.D., *Clinical Instructor in Obstetrics and Gynecology.*

Samuel Mayer Dodek, M.D., *Clinical Instructor in Obstetrics and Gynecology.*

### 361-62 *Normal Obstetrics*

Lectures and recitations on the physiology and management of normal pregnancy, labor, and the puerperium. Complications of pregnancy are considered. Two hours a week.

### 364 *Gynecological Pathology (Lecture)*

Twenty one-hour lectures covering the essentials of gynecologic pathology, and ten one-hour periods of demonstration and study of the gross and microscopic material covered by the lectures.

Kane

Brown



165-66 *Principles and Practice of Gynecology*

Titus

A course on the subject matter of Gynecology, medical and surgical, with dispensary clinics to demonstrate the principles taught. One hour a week for sixteen weeks in the first semester and for six weeks in the second.

451-52 *Abnormal Obstetrics*

Kane, Silvester

Lectures, recitations, and conferences on the pathology of pregnancy, labor, and the puerperium. One hour a week.

453 *Operative Gynecology*

Kotz

A course of lectures describing the fundamental operative procedures in Gynecology. One hour a week for ten weeks.

455-56 *Clinical Obstetrics*

Brown and Staff

This course embraces dispensary clinics on prenatal care, ward clinics, observation of abnormal deliveries, and the attendance, under supervision, of six cases in the out-patient service. Gallinger Hospital.

457-58 *Clinical Gynecology*

Brown and Staff

Clinical instruction covering the more important gynecological diseases and operations. Gallinger Hospital.

459-60 *Clinical Obstetrics*

Brown and Staff

This course embraces dispensary clinics on prenatal care, ward clinics, and observation of abnormal deliveries. Gallinger Hospital.

## OPHTHALMOLOGY

William Thornwall Davis, M.D., *Professor of Ophthalmology, Executive Officer.*

George Victor Simpson, M.D., *Assistant Professor of Ophthalmology.*

Ernest Alfred Watson Sheppard, M.D.C.M., *Clinical Instructor in Ophthalmology.*

Frederick Leslie Benton, M.D., Sc.D., *Clinical Instructor in Ophthalmology.*

### 571-72 *Dispensary Clinic*

The Staff

Clinical demonstration in prevalent diseases usually met in the dispensary cases. Emergency Hospital, one section daily.

### 461 *Ophthalmology*

Davis

A lecture course presenting the principles of Ophthalmology, with special reference to topics of importance to the general practitioner. Two hours a week for ten weeks.

### 463-64 *Clinic*

Davis and Staff

Intensive training in diseases of the eye, including etiology, and diagnosis and treatment in their application to clinical cases. Episcopal Hospital, three hours twice a week

## OTO-RHINO-LARYNGOLOGY

William Beverley Mason, M.D., *Professor of Oto-rhino-laryngology, Executive Officer.*

Daniel Bruce Moffett, A.B., M.D., *Associate Professor of Oto-rhino-laryngology.*

William Herndon Jenkins, M.D., *Clinical Professor of Oto-rhino-laryngology.*

Boyce Richardson Bolton, M.D., *Assistant Professor of Oto-rhino-laryngology.*

David Davis, A.B., M.D., *Associate in Oto-rhino-laryngology.*

Don R. Johnson, LL.B., M.D., *Associate in Oto-rhino-laryngology.*

LeRoy Lee Sawyer, jr., A.B., M.D., *Clinical Instructor in Oto-rhino-laryngology.*

Aubrey David Fischer, M.D., *Clinical Instructor in Oto-rhino-laryngology.*

Jeter Carroll Bradley, M.D., *Clinical Instructor in Oto-rhino-laryngology.*

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### 377-78 *Dispensary Clinic*

Mason and Staff

Practical clinical instruction in the diagnosis and treatment of diseases of the ear, nose, and throat. Emergency Hospital, one section daily; Children's Hospital, one hour twice a week.

### 466 *Oto-rhino-laryngology*

Jenkins

Clinical lectures and demonstration of diseases of the ear, nose, and throat, including bronchoscopy and esophagoscopy. One hour a week.

### 467 *Oto-rhino-laryngology*

Moffett

Lectures on the anatomy, physiology, and diseases of the ear, nose, and throat. One hour a week.

### 469-70 *Clinic*

Mason and Staff

Practical clinical instruction in the diagnosis and treatment of diseases of the ear, nose, and throat. Episcopal Hospital, one section, two and three-fourths hours twice a week; Gallinger Hospital, one section, one and one-half hours a week.



## PATHOLOGY AND EXPERIMENTAL MEDICINE

Edward Bright Vedder, Sc.D., M.D., *Professor of Experimental Medicine,  
Executive Officer.*

Roger Morrison Choisser, B.S., M.D., *Professor of Pathology.*

James Leslie Snyder, M.S., M.D., *Instructor in Pathology.*

Charles Rosenberg, A.M., *Instructor in Pathology.*

### 216 *Clinical Microscopy*

Lectures and laboratory work covering aspects of diagnosis, including the study of urinalysis, blood counting, stomach contents, feces, sputum, spinal fluids, and pleural exudates. One half of the class, four hours a week for eight weeks. Lectures to the entire class one hour a week for sixteen weeks.

### 217-18 *Pathology*

A course covering inflammation, repair, degenerations, the effects of plant (including bacteria) and animal parasites on the body, the effects of chemical and physical agents, the formation of new growths, etc., followed by special pathology of the organs and of the specific diseases. The laboratory work consists primarily of the histologic study of diseased tissues and neoplasms. Three hours a week in the first semester and twelve hours a week in the second.

### 307-8 *Autopsies*

Groups of students are called from time to time for autopsies performed by members of the staff. Amphitheater necropsies are held regularly at the University and Gallinger Hospitals, the clinicians and pathologists participate in the discussions and elucidation of the findings.

### 309 *Oncology (elective)*

### 401-2 *Problems and Methods in Experimental Pathology and Medicine*

Hours and credits to be arranged.

### 403-4 *Clinical Pathological Conferences (elective)*

Clinical records are presented by the student assigned to the case in the wards. Autopsy and clinical findings are compared, and the specimens are demonstrated and examined by all present. One hour a week.

### 405 *Research*

Hours and credits to be arranged

## PEDIATRICS

Harry Hampton Donnally, A.M., M.D., *Professor of Pediatrics, Executive Officer.*

Henry Cook Macatee, M.D., *Clinical Professor of Pediatrics.*

Preston Alexander McLendon, B.S., M.D., *Assistant Professor of Pediatrics.*

Charles Aurelius Schutz, M.D., *Assistant Professor of Pediatrics.*

Loren Bascom Taber Johnson, B.S., M.D., *Associate in Pediatrics.*

Margaret Mary Nicholson, A.B., M.D., *Clinical Instructor in Pediatrics.*

Elizabeth Emery Chickering, A.B., M.D., *Clinical Instructor in Pediatrics.*

Aaron Nimetz, A.B., M.D., *Clinical Instructor in Pediatrics.*

James Alfred Rolls, A.B., M.D., *Clinical Instructor in Pediatrics.*

337-38 *Pediatrics*

Schutz

A course of lectures on diseases and malformations of the newly born. Growth (mental and physical), metabolism, nutrition, nutritional diseases, therapeutics, habits, preventive pediatrics, and social aspects, are considered. One hour a week in the first semester and for eight weeks in the second.

339-40 *Dispensary Clinic*

The Staff

Clinical course in infant feeding. Children's Hospital, Infant Welfare Center, one section, one hour a week.

341-42 *Dispensary Clinic*

Schutz

Clinical course in the infant and the preschool child. Children's Hospital, Child Welfare Center, one section, one hour a week.

343-44 *Dispensary Clinic*

The Staff

Clinical course in the out-patient department, including minor to serious disorders of children. Children's Hospital, one section, one and one-half hours four times a week.

345 *Special Clinic*

Johnson

The emotional life of the child, his habit formations, and his behavior problems. Children's Hospital, sections, three hours twice a week.

427-28 *Clinic*

Donnally

Teaching clinic. Children's Hospital, entire class, one and one-fourth hours a week.

429-30 *Clinical Clerkship*

Donnally, McLendon

Ward walks, physical diagnosis in children, special pediatric

procedures, bedside instruction in contagious diseases, clinical laboratory and necropsy instruction, diagnosis and treatment of urgent cases. Children's Hospital, one fourth of the class, three hours three times a week.

431-32 *Contagious-Disease Clinic*

Macatee

Bedside instruction in scarlet fever. Garfield Hospital, one fourth of the class, one hour a week.

433-34 *Contagious-Disease Clinic*

Reilly

Bedside instruction in diphtheria. Gallinger Hospital, one fourth of the class, one hour a week.

435 *Clinic*

Donnelly and Staff

Clinical instruction in the care of the newly born, congenital malformations, birth injuries, and prematurity. Gallinger Hospital, one fourth of the class, one hour a week.



## PHARMACOLOGY AND THERAPEUTICS

George Byron Roth, A.B., M.D., *Professor of Pharmacology, Executive Officer.*

Phoebe Jeannette Crittenden, Ph.D., *Instructor in Pharmacology.*

James Holmes Defandorf, A.M., *Instructor in Pharmacology.*

### 226 *Pharmacology*

Roth and Staff

This course consists of laboratory instruction covering both the chemical nature and the biological effects of drugs. Five hours a week.

### 228 *Pharmacology*

Roth

A didactic course, supplemented by demonstration, which correlates the most prominent facts relating to the more important therapeutic agents, special consideration being given to the drugs found in the United States Pharmacopoeia and New and Nonofficial Remedies. Three hours a week.

### 230 *Pharmacology Conference (elective)*

Roth and Staff

### 231 *Prescription Writing*

Roth

Sixteen one hour conferences on the form of the prescription, with practical exercises.

### 311-12 *Therapeutics*

The Staff

Lectures, conferences, and demonstrations on the clinical uses of drugs. One hour a week in the first semester and for twelve weeks in the second.

### 313 *Therapeutics Seminar (elective)*

Roth

One hour a week.

### 314 *Research*

Roth and Staff

Hours and credits to be arranged.

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## PHYSIOLOGY

Errett Cyril Albritton, A.B., M.D., *Professor of Physiology, Executive Officer.*

Chester Elwood Leese, Ph.D., *Assistant Professor of Physiology*

William Ferguson Hamilton, Ph.D., *Assistant Professor of Physiology*

Alice Calvert Roberts, Sc.D., *Instructor in Physiology*

George Brewer, A.B., M.D., *Instructor in Physiology*

116 *General Physiology* Hamilton, Roberts, Brewer  
A study of the fundamentals of Physiology. Lectures and laboratory Mon., Wed., and Fri., 9 to 11 a.m.

118 *Fundamental of Physiology* Albritton, Leese, Hamilton  
Lectures, demonstrations, and conferences on fundamental principles dealing with General Physiology, including a consideration of biophysics, the application of the physical and mathematical sciences to the study of life phenomena, and their relation to medical science. Special emphasis is placed on a review of the new literature, and training is given in methods of quantitative physiological observations. Three hours a week.

221 *Mammalian and Human Physiology* Albritton and Staff  
Lectures, demonstrations, and laboratory exercises dealing with the physiology of muscle, nerve, reflexes, blood, circulation, respiration, digestion, secretion, absorption, metabolism, the central nervous system, special senses, internal secretion, and reproduction. Experiments, by groups, are made on mammals under anesthesia. Three hours of lectures and ten hours of laboratory work a week.

222 *Introduction to Research*  
Three hours a week.

223-24 *Seminar*  
No credit. Hours to be arranged.

225 *Research*  
Hours and credits to be arranged.

## PSYCHIATRY

William Alanson White, A.M., M.D., *Professor of Psychiatry, Executive Officer.*

Roscoe Willis Hall, Ph.B., M.D., *Clinical Professor of Psychiatry.*

Nolan Don Charpentier Lewis, M.D., *Clinical Professor of Psychiatry.*

Paul Jacob Ewerhardt, M.D., *Clinical Instructor in Psychiatry.*

John Edward Lind, M.D., *Clinical Instructor in Psychiatry.*

Harriet Elizabeth Twombly, A.B., M.D., *Clinical Instructor in Psychiatry.*

Addison McGuire Duvall, M.D., *Clinical Instructor in Psychiatry.*

Winsfred Richmond, Ph.D., *Clinical Instructor in Psychiatry.*

Samuel Alexander Silk, M.D., *Clinical Instructor in Psychiatry.*

136 *Introductory Medical Psychology (election)* Lewis

The theoretical and practical aspects of the constitution, character, and personality as related to Medicine, the psychological features in various diseases, with special attention to the patient's personality; and the different types of character development and their special ways of adaptation. One hour a week.

246 *Organic Psychopathology (clinical)* Hall

The common organic reaction types, illustrated with suitable case presentations. One hour a week.

352 *Psychiatry* White

A course on the major psychoses, illustrated by the presentation of clinical material and utilized for the purpose of explaining the fundamental psychological mechanisms involved. St. Elizabeth's Hospital, one hour a week.

353 *Dispensary Clinic: Personality Adjustments* Ewerhardt

Maladaptations occurring in childhood and youth. One hour a week for eight weeks.

441-42 *Ward Walks* The Staff

The personal examination of the various types of psychosis, and the writing by the student of a formal report of the mental examination, followed by a review of the cases with an instructor. St. Elizabeth's Hospital, two hours a week.

443-44 *Psychoneurosis* Lewis

A course on the descriptive aspects, the etiology, the psychopathology, and the treatment of the various psychoneuroses, such as hypochondria, neurasthenia, organ neuroses, compul-



sions, obsessions, phobias. St. Elizabeth's Hospital, one hour a week for twelve weeks.

445 *Personality Profiles*

Utilization of psychological testing methods for the purpose of determining individuals' limitations and special capacities. St. Elizabeth's Hospital, one hour a week for four weeks.

Richmond

## SURGERY

Charles Stanley White, M.D., *Professor of Surgery, Executive Officer.*  
 Daniel LeRay Borden, A.M., M.D., *Associate Professor of Surgery.*  
 James Farnandis Mitchell, A.B., M.D., *Clinical Professor of Surgery.*  
 Harry Hyland Kerr, M.D.C.M., *Clinical Professor of Surgery.*  
 Paul Stirling Putzki, M.D., *Assistant Professor of Surgery.*  
 Arch Lockhart Riddick, A.B., M.D., *Assistant Professor of Surgery.*  
 William Berry Marbury, M.D., *Assistant Professor of Surgery.*  
 Custis Lee Hall, M.D., *Assistant Professor of Surgery.*  
 John Hugh Lyons, M.S., M.D., *Associate in Surgery.*  
 Cline N. Chipman, M.D., *Associate in Surgery.*  
 Guy Whitman Leadbetter, B.S., M.D., *Associate in Surgery.*  
 William Warren Sager, M.S., M.D., *Associate in Surgery.*  
 Benjamin Franklin Dean, jr., A.B., M.D., *Associate in Surgery.*  
 Alec Horwitz, M.S., M.D., *Associate in Surgery.*  
 Harold Walter Krogh, D.D.S., *Associate in Surgery.*  
 Charles Wilbur Hyde, M.D., *Clinical Instructor in Surgery.*  
 Francis George Spindel, M.D., *Clinical Instructor in Surgery.*  
 Philip Oscar Pelland, M.D., *Clinical Instructor in Surgery.*  
 Stewart Maxwell Grayson, M.D., *Clinical Instructor in Surgery.*  
 James Houston Hawfield, M.D., *Clinical Instructor in Surgery.*  
 Nathan Norman Smiler, M.D., *Clinical Instructor in Surgery.*  
 Richard Knight Thompson, D.D.S., *Clinical Instructor in Surgery.*  
 Edward Alexander Cafritz, M.D., *Clinical Instructor in Surgery.*  
 Hazen Eugene Cole, B.S., M.D., *Clinical Instructor in Surgery.*  
 Harry Kaplan, D.D.S., *Clinical Instructor in Surgery.*  
 William Wiley Chase, A.B., M.D., *Clinical Instructor in Surgery.*  
 Valentine Martin Hess, M.D., *Clinical Instructor in Surgery.*  
 Julius Salem Neviaser, A.B., M.D., *Clinical Instructor in Surgery.*  
 James Lloyd Collins, A.B., M.D., *Clinical Instructor in Surgery.*

### 126 *Introductory Surgical Clinics*

White and Staff

Obvious and classical cases are presented to the students, whose background of the structure of the body serves to give them an understanding of the cases. Two hours a week.

325-26 *Surgical Technique* Marbury

This course comprises a series of demonstrations of surgical instruments and appliances, with a practical demonstration of their uses. The preparation of the patient, the operating room, the materials commonly used, and the duties of each member of an operating team are carefully presented, with the detailed consideration of minor operations and the post-operative management and complications. As far as possible the lectures will be supplemented by clinical application. One hour a week for twenty weeks.

327-28 *General Surgery* Borden

Course of lectures and recitations covering General Surgery as applied to the neck, thorax, gastro-intestinal tract, and the bones and skeletal muscles. Two hours a week

329 *Oral Surgery (elective)* Krogh

This course is designed to acquaint the student with the surgical aspects of the teeth and jaw and their general relationship to the other aspects of Surgery. One hour a week for five weeks.

330 *Anesthesia (elective)* Chipman

Theoretical and practical instruction is given in the use of general and local anesthetic agents. One hour a week for nine weeks.

331-32 *Dispensary Clinic* The Staff

Dispensary instruction in the principles and practice of Surgery. Instruction of small groups is given in General Surgery and the specialties, including anesthesia, neurosurgery, orthopedics, proctology, and oral surgery. University Hospital, one section, two and one-half hours daily; Emergency Hospital, one section, one and one-half hours daily; Providence Hospital, one section, two and three-fourths hours three times a week; Children's Hospital, one section, one and three-fourths hours a week.

333-34 *General Surgery* White, Putzki, Riddick

Course of lectures and recitations covering Surgery as applied to the neck, thorax, gastro-intestinal tract, and the bones and skeletal muscles. Two hours a week.

416 *Orthopedics (elective)* Hall

The course includes the etiology, pathology, symptomatology, and treatment of congenital and acquired diseases of the bones and joints, and the clinical instruction in treatment and in the use of appliances for the correction of deformities. One hour a week for sixteen weeks.



417-18 *Private Practice of Surgery (elective)* White and Staff  
Students who elect this course will be given instruction in the private offices of various members of the staff, where they may observe the private practice of surgery.

419 *General Surgery* Leadbetter  
One hour a week

421-22 *Surgical Clinic* White, Mitchell, and Staff  
Demonstration to the entire class of the various surgical diseases, with stress upon the differential diagnosis and pre- and post-operative care. University Hospital, two hours a week for thirty-two weeks; Gallinger Hospital, four sections, one and one-half hours twice a week for sixteen weeks and one hour a week for sixteen weeks; Emergency Hospital, one hour three times a week; University Hospital, one hour three times a week.

423-24 *Ward Walks* The Staff  
Well-organized group ward-rounds are made with the visiting physicians and their respective staffs in the course of their usual rounds. Emergency Hospital, one hour three times a week; University Hospital, one hour three times a week.

425-26 *Clinical Clerkship* The Staff  
The students are assigned and required to thoroughly work up the cases for diagnosis and treatment. Gallinger Hospital, two and one-half hours three times a week; Emergency Hospital, two sections, two hours three times a week; University Hospital, two sections, two hours three times a week; St. Elizabeth's Hospital, one fourth of the class, two hours a week.

## UROLOGY

Francis Randall Hagner, M.D., *Professor of Urology, Executive Officer.*  
 Frederick August Reuter, M.D., *Clinical Professor of Urology.*  
 Homer Gifford Fuller, Ph.B., M.D., *Clinical Professor of Urology.*  
 Thomas Carlton Thompson, B.S., M.D., *Associate Professor of Urology.*  
 Alan Jeffries Chenery, M.D., *Associate in Urology.*  
 Charles Perry Howze, M.D., *Associate in Urology.*  
 Miles Parker Omohundro, M.D., *Associate in Urology.*  
 Lyle Millan Mason, M.D., *Clinical Instructor in Urology.*  
 Gilbert Ottenberg, A.M., M.D., *Clinical Instructor in Urology.*  
 Norvell Belt, A.B., M.D., *Clinical Instructor in Urology.*  
 William Glenn Young, M.D., *Clinical Instructor in Urology.*

- 381-82 Clinics** Reuter and Staff  
 Clinical demonstration and teaching in the dispensary, with special attention given to venereal cases. Emergency and University Hospitals, one part of each section daily.
- 471-72 Urology** Thompson  
 A systematic course of lectures covering the entire field of Urology, including diagnosis, treatment, and morbid pathology. One hour a week.
- 473-74 Clinics** Hagner, Fuller, Chenery, Thompson  
 Clinical teaching and demonstrations on the care of urological cases, with special emphasis on the pre- and post-operative management. Gallinger Hospital, one hour a week for twenty-eight weeks. Operative clinics and clinical teaching, including cystoscopy and the use of instruments. Garfield Hospital, one fourth of the class, one and one-half hours a week.
- 476 Urology Seminar (elective)** Reuter  
 Special problems, technique, and instrumentation in genito-urinary diseases. One hour a week.

# SCHEDULE OF CLASSES

1933-34

FIRST YEAR

FIRST SEMESTER

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
7-10			History of Medicine <i>lecture</i>			
10-11	Histology and Embryology	Histology and Embryology				
11-12			Microscopic Anatomy <i>practical lecture</i>	Histology and Embryology	Histology and Embryology	Histology and Embryology
12-1						
1-2						
2-3	Anatomy	Anatomy				
3-4			Comparative Anatomy <i>lecture</i>	Anatomy	Anatomy	
4-5						



FIRST YEAR  
SECOND SEMESTER

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-10	Regional Anatomy	Biochemistry	Regional Anatomy	Physiology	Regional Anatomy	Biochemistry Seminar (elective)
10-11		Physiology		Biochemistry		
11-12	Bacteriology	Medical Psychology (elective)	Bacteriology	Parasitology (elective)	Bacteriology	Introductory Medical and Surgical Clinics (elective)
12-1						
1-2	Bacteriology Laboratory		Bacteriology Laboratory		Bacteriology Laboratory	
2-3						
3-4						
4-5						

SECOND YEAR  
FIRST SEMESTER

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9	Psychology	Biostatistics	Psychology	Biostatistics	Psychology	
9-11	Physiology & Anatomy		Physiology & Anatomy			
11-12	Psychology	Biostatistics Laboratory	Physiology & Anatomy Laboratory	Biostatistics Laboratory	Psychology	Biostatistics Laboratory
12-1						
1-2						
2-3	Physiology Laboratory	Physiology	Physiology Laboratory		Physiology Laboratory	
3-4		Physiology Technique Laboratory		Physiology & Anatomy Laboratory		
4-5						

SECOND YEAR  
SECOND SEMESTER

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9	Pharmacology	Prescription Writing	Pharmacology	Pharmacology Seminars (elective)	Pharmacology	
10-11	Pathology	Physiology Seminars (elective)	Pathology		Chemistry of Urinal Excretions (elective)	
11-12	Psychopathology (elective)	Epidemiology and Viral Statistics (elective)		Physical Diagnosis	Clinical Microscopy	Clinical Microscopy Laboratory 8 weekly half class
12-1						
1-2						
2-3	Pathology Laboratory	Pharmacology Laboratory	Pathology Laboratory	Pharmacology Laboratory	Pathology Laboratory	
3-4						
4-5						



# THIRD YEAR FIRST SEMESTER

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9	Medicine	Surgery	Pediatrics	Medicine	Therapeutics Seminar (elective)	
9-10	Obstetrics	Surgical Technique	Gynecology	Military Surgery (elective)	Obstetrics	
10-11	Surgery	Medicine	Surgery	Therapeutics	Preventive Medicine	Congenital Syphilis*
11-12	Dispensary†	Dispensary†	Dispensary†	Dispensary†	Dispensary†	Dispensary†
1-3	Physical Diagnosis (clinic)	Preventive Medicine	Oncology (elective)	Medical Jurisprudence (1 week) Pharmacology (5 weeks, elective)	Physical Diagnosis (clinic)	
3-4		Dermatology and Syphilology		Dermatology and Syphilology		
4-5						

\* See seminar schedule No. 2

† For Dispensary schedule see section schedule No. 1.

### THIRD YEAR SECOND SEMESTER

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9	Medicine	Surgery (12 weeks)	Pediatrics (8 weeks)	Medicine		
9-10	Obstetrics	Surgical Technique (4 weeks)	Gynaecology (6 weeks) Gynaecological Pathology (2 weeks, elective)	Military Science (elective)	Tropical Medicine (elective)	Surgical Anatomy (elective)
10-11	Surgery	Medicine	Surgery (7 weeks) Anaesthetics (4 weeks, elective)	Therapeutics (12 weeks)	Radiology (elective)	Gynecological Pathology, Laboratory (10 weeks, elective)
11-12						
1-2	Dispensary*	Dispensary*	Dispensary*	Dispensary*	Dispensary*	Dispensary*
1-2						
3-4	Physical Diagnosis (clinic)		Infectious Diseases (elective)			
3-4		Neurophysiology (8 weeks) Neurology (8 weeks)	Surgical Anatomy (elective)		Physical Diagnosis (clinic)	
4-5		Psychiatry				

\* For Dispensary schedule see section schedule No. 1

# FOURTH YEAR

## FIRST SEMESTER

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9		Otolaryngology		Ophthalmology 110 weeks		Ophthalmology 110 weeks
9-10		Obstetrics		Gynecology 10 weeks Obstetrics 6 weeks		
10-11	(Clinics 10 to 11:30)	Surgery	Clinics (10 to 11:30)	Special Problems in Surgery (elective)	Clinics (10 to 11:30)	Surgery Clinic
11-12		Clinics		Neurosurgery (elective)		
12-1						Urology
1-2						(Comparative pathological Conference (elective))
2-3	Clinics	Clinics	Clinics	Clinics	Clinics	Military Science (elective)
3-4						
4-5						



# FOURTH YEAR SECOND SEMESTER

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9		Ophthalmology		Urology Seminar (elective)		Surgery Clinic
9-10		Radiology elective		Orthopedic Surgery (elective)		
10-11	Clinics	Surgery	Clinics	Special Problems in Surgery (elective)	Clinics	
11-12		Clinics				Urology
12-1						Clinico-pathological Conference (elective)
1-2						Military Science (elective)
2-3	Clinics	Clinics	Clinics	Clinics	Clinics	
3-4						
4-5						

# THIRD-YEAR SECTION SCHEDULES

## SECTION SCHEDULE No. 1

SER.	1ST PERIOD	2D PERIOD	3D PERIOD	4TH PERIOD	5TH PERIOD	6TH PERIOD
1	Children's Well baby Class, W., 11:30 Th., 1:10 F., 11:15-1	Emergency daily, 11:30 -2	Emergency daily, 12:30 -2	Presidence M W F, Children's, 11:15-2 gology, Th., 1:2	Children's, Pediatrics, M W Th S, 1:2	Children's, Otolaryn- gology, 1:12 Emergency M W Th F S, 11:10-2
2	Children's, Otolaryn- gology, 1:12 Emergency M W Th F S, 11:10-2	Children's Well baby Class, W., 11:30 Th., 1:10 F., 11:15-1	Emergency daily, 11:30 -2	Emergency daily, 12:30 -2	Presidence M W F, Children's, Otolaryn- gology, Th., 1:2	Children's, Pediatrics, M W Th S, 1:2-3D
3	Children's, Pediatrics, M W Th S, 1:2-3D	Children's, Otolaryn- gology, 1:12 Emergency M W Th F S, 11:10-2	Children's Well baby Class, W., 11:30 Th., 1:10 F., 11:15-1	Emergency daily, 11:30 -2	Emergency daily, 12:30 -2	Presidence M W F, Children's, Otolaryn- gology, Th., 1:2
4	Presidence M W F, Children's, Otolaryn- gology, Th., 1:2	Children's, Pediatrics, M W Th S, 1:2-3D	Children's, Otolaryn- gology, 1:12 Emergency M W Th F S, 11:10-2	Children's Well baby Class, W., 11:30 Th., 1:10 F., 11:15-1	Emergency daily, 11:30 -2	Emergency daily, 12:30 -2
5	Emergency daily, 12:30 -2	Presidence M W F, Children's, Otolaryn- gology, Th., 1:2	Children's, Pediatrics, M W Th S, 1:2-3D	Children's, Otolaryn- gology, 1:12 Emergency M W Th F S, 11:10-2	Children's Well baby Class, W., 11:30 Th., 1:10 F., 11:15-1	Emergency daily, 11:30 -2
6	Emergency daily, 11:30 -2	Emergency daily, 12:30 -2	Presidence M W F, Children's, Otolaryn- gology, Th., 1:2	Children's, Pediatrics, M W Th S, 1:2-3D	Children's, Otolaryn- gology, 1:12 Emergency M W Th F S, 11:10-2	Children's Well baby Class, W., 11:30 Th., 1:10 F., 11:15-1

# SECTION SCHEDULE No. 2

SATURDAY, 10 A.M.-12

Sec	SEPT. 21 AND 20 AND OCT. 7	OCT. 14 AND 21	OCT. 28 AND NOV. 4 AND 11	NOV. 18 AND 25	DEC. 9 AND 16	JAN. 6, 13, AND 20
1	Children's: Congenital Syphilis					
2			Children's: Congenital Syphilis			
3					Children's: Congenital Syphilis	
4		Children's: Congenital Syphilis		Children's: Congenital Syphilis		
5				Children's: Congenital Syphilis		
6						Children's: Congenital Syphilis



**FOURTH-YEAR SECTION SCHEDULES**  
**SECTION SCHEDULE No. 1**  
**MONDAY, WEDNESDAY, AND FRIDAY**

SEC	1ST PERIOD	2D PERIOD	3D PERIOD	4TH PERIOD	5TH PERIOD	6TH PERIOD	7TH PERIOD	8TH PERIOD
1	Gallinger * 9-5	Gallinger * 9-5	Gallinger * 9-5	Gallinger * 9-5	Emergency * 9-1 Children: 1:30-4:30	Emergency * 9-1 Children: 1:30-4:30	Emergency * 9-1 Episcopal & Ophthalmology. 1:15-4	Emergency * 9-1 University & Otorhinology. 1:15-4
2	Gallinger * 9-5	Gallinger * 9-5	Gallinger * 9-5	Gallinger * 9-5	Emergency * 9-1 Children: 1:30-4:30	Emergency * 9-1 Children: 1:30-4:30	Emergency * 9-1 University & Otorhinology. 1:15-4	Emergency * 9-1 Episcopal & Ophthalmology. 1:15-4
3	Gallinger * 9-5	Gallinger * 9-5	Gallinger * 9-5	Gallinger * 9-5	Emergency * 9-1 Episcopal & Ophthalmology. 1:15-4	Emergency * 9-1 University & Otorhinology. 1:15-4	Emergency * 9-1 Children: 1:30-4:30	University * 9-1 Children: 1:30-4:30
4	Gallinger * 9-5	Gallinger * 9-5	Gallinger * 9-5	Gallinger * 9-5	Emergency * 9-1 University & Otorhinology. 1:15-4	Emergency * 9-1 Episcopal & Ophthalmology. 1:15-4	University * 9-1 Children: 1:30-4:30	University * 9-1 Children: 1:30-4:30
5	Emergency * 9-1 Children: 1:30-4:30	Emergency * 9-1 Children: 1:30-4:30	Emergency * 9-1 Episcopal & Ophthalmology. 1:15-4	Emergency * 9-1 University & Otorhinology. 1:15-4	Gallinger * 9-5	Gallinger * 9-5	Gallinger * 9-5	Gallinger * 9-5
6	Emergency * 9-1 Children: 1:30-4:30	Emergency * 9-1 Children: 1:30-4:30	Emergency * 9-1 University & Otorhinology. 1:15-4	Emergency * 9-1 Episcopal & Ophthalmology. 1:15-4	Gallinger * 9-5	Gallinger * 9-5	Gallinger * 9-5	Gallinger * 9-5
7	Emergency * 9-1 Episcopal & Ophthalmology. 1:15-4	University * 9-1 University & Otorhinology. 1:15-4	University * 9-1 Children: 1:30-4:30	University * 9-1 Children: 1:30-4:30	Gallinger * 9-5	Gallinger * 9-5	Gallinger * 9-5	Gallinger * 9-5
8	University * 9-1 University & Otorhinology. 1:15-4	Emergency * 9-1 Episcopal & Ophthalmology. 1:15-4	University * 9-1 Children: 1:30-4:30	University * 9-1 Children: 1:30-4:30	Gallinger * 9-5	Gallinger * 9-5	Gallinger * 9-5	Gallinger * 9-5

\* See section schedules Nos. 2, 5, and 6

† Fridays only

**SECTION SCHEDULE No. 2**  
**GALLINGER MUNICIPAL HOSPITAL**

Hours	MONDAY	WEDNESDAY	FRIDAY
9-10.30	Medical Clinic	Medical Clinic	Medical Clinic
10.30-11.30	Obstetrics and Gynecology	Obstetrics and Gynecology	Surgery
1-2.30	Surgery	Urology (see section schedule No. 4)	Surgery
2.30-4	Clinical Clerkship	Clinical Clerkship	Clinical Clerkship
4-5	Lectures on Diphtheria (6 weeks)		

## SECTION SCHEDULE No. 3

TUESDAY

SEC.	1ST PERIOD	2D PERIOD	3D PERIOD	4TH PERIOD	5TH PERIOD	6TH PERIOD	7TH PERIOD	8TH PERIOD
1-8	Children's: 11.15-12.30	Children's: 11.15-12.30	Children's: 11.15-12.30	Children's: 11.15-12.30	Children's: 11.15-12.30	Children's: 11.15-12.30	Children's: 11.15-12.30	Children's: 11.15-12.30
1	Clinical Physiol. ogv. 1.30-3.30	Clinical Physiol. ogv. 1.30-3.30	Garfield: Urology, 11.30-1. Contagious Disease, 2.30-3.30	Garfield: Contagious Disease, 2.30-3.30	Children's: Dermatol., 1.2.30	Children's: Dermatol., 1.2.30	Episcopal Ophthalmology, 1.15-4	Episcopal Ophthalmology, 1.15-4
2	Clinical Physiol. ogv. 1.30-3.30	Clinical Physiol. ogv. 1.30-3.30	Garfield: Contagious Disease, 2.30-3.30	Garfield: Urology, 11.30-1. Contagious Disease, 2.30-3.30	Children's: Dermatol., 1.2.30	Children's: Dermatol., 1.2.30	Episcopal Ophthalmology, 1.15-4	Episcopal Ophthalmology, 1.15-4
3	Episcopal: Ophthalmology, 1.15-4	Episcopal: Ophthalmology, 1.15-4	Clinical Physiol. ogv. 1.30-3.30	Clinical Physiol. ogv. 1.30-3.30	Garfield: Urology, 11.30-1. Contagious Disease, 2.30-3.30	Garfield: Contagious Disease, 2.30-3.30	Children's: Dermatol., 1.2.30	Children's: Dermatol., 1.2.30
4	Episcopal: Ophthalmology, 1.15-4	Episcopal: Ophthalmology, 1.15-4	Clinical Physiol. ogv. 1.30-3.30	Clinical Physiol. ogv. 1.30-3.30	Garfield: Urology, 11.30-1. Contagious Disease, 2.30-3.30	Garfield: Urology, 11.30-1. Contagious Disease, 2.30-3.30	Children's: Dermatol., 1.2.30	Children's: Dermatol., 1.2.30
5	Children's: Dermatol., 1.2.30	Children's: Dermatol., 1.2.30	Episcopal: Ophthalmology, 1.15-4	Episcopal: Ophthalmology, 1.15-4	Clinical Physiol. ogv. 1.30-3.30	Clinical Physiol. ogv. 1.30-3.30	Garfield: Urology, 11.30-1. Contagious Disease, 2.30-3.30	Garfield: Contagious Disease, 2.30-3.30
6	Children's: Dermatol., 1.2.30	Children's: Dermatol., 1.2.30	Episcopal: Ophthalmology, 1.15-4	Episcopal: Ophthalmology, 1.15-4	Clinical Physiol. ogv. 1.30-3.30	Clinical Physiol. ogv. 1.30-3.30	Garfield: Urology, 11.30-1. Contagious Disease, 2.30-3.30	Garfield: Urology, 11.30-1. Contagious Disease, 2.30-3.30
7	Garfield: Urology, 11.30-1. Contagious Disease, 2.30-3.30	Garfield: Contagious Disease, 2.30-3.30	Children's: Dermatol., 1.2.30	Children's: Dermatol., 1.2.30	Episcopal: Ophthalmology, 1.15-4	Episcopal: Ophthalmology, 1.15-4	Clinical Physiol. ogv. 1.30-3.30	Clinical Physiol. ogv. 1.30-3.30
8	Garfield: Contagious Disease, 2.30-3.30	Garfield: Urology, 11.30-1. Contagious Disease, 2.30-3.30	Children's: Dermatol., 1.2.30	Children's: Dermatol., 1.2.30	Episcopal: Ophthalmology, 1.15-4	Episcopal: Ophthalmology, 1.15-4	Clinical Physiol. ogv. 1.30-3.30	Clinical Physiol. ogv. 1.30-3.30



# SECTION SCHEDULE No. 4

GALLINGER HOSPITAL : WEDNESDAY, 1-2.30 P.M.

Srs	1st PERIOD	2d PERIOD	3d PERIOD	4TH PERIOD	5TH PERIOD	6TH PERIOD	7TH PERIOD	8TH PERIOD
1	Otolaryngology	Urology	Urology	Urology	Urology	Urology	Urology	Urology
2	Urology	Otolaryngology	Urology	Urology	Urology	Urology	Urology	Urology
3	Urology	Urology	Otolaryngology	Urology	Urology	Urology	Urology	Urology
4	Urology	Urology	Urology	Otolaryngology	Urology	Urology	Urology	Urology
5	Urology	Urology	Urology	Urology	Otolaryngology	Urology	Urology	Urology
6	Urology	Urology	Urology	Urology	Urology	Otolaryngology	Urology	Urology
7	Urology	Urology	Urology	Urology	Urology	Urology	Otolaryngology	Urology
8	Urology	Urology	Urology	Urology	Urology	Urology	Urology	Otolaryngology

# SECTION SCHEDULE No. 5

EMERGENCY HOSPITAL : MONDAY, WEDNESDAY, AND FRIDAY

SEC	HOURS	1ST PERIOD	2D PERIOD	3D PERIOD	4TH PERIOD	5TH PERIOD	6TH PERIOD	7TH PERIOD	8TH PERIOD
5	9-10	Medicine Ward Walk		Surgery Ward Walk					
6	9-10	Surgery Ward Walk		Medicine Ward Walk					
5	10-12	Medicine Clinical Clerkship		Surgery Clinical Clerkship					
6	10-12	Surgery Clinical Clerkship		Medicine Clinical Clerkship					
5-6	12-1	Medical Clinic							
1	9-10					Medicine Ward Walk		Surgery Ward Walk	
2	9-10					Surgery Ward Walk		Medicine Ward Walk	
1	10-12					Medicine Clinical Clerkship		Surgery Clinical Clerkship	
3	10-12					Surgery Clinical Clerkship		Medicine Clinical Clerkship	
1-3	12-1	Medical Clinic							

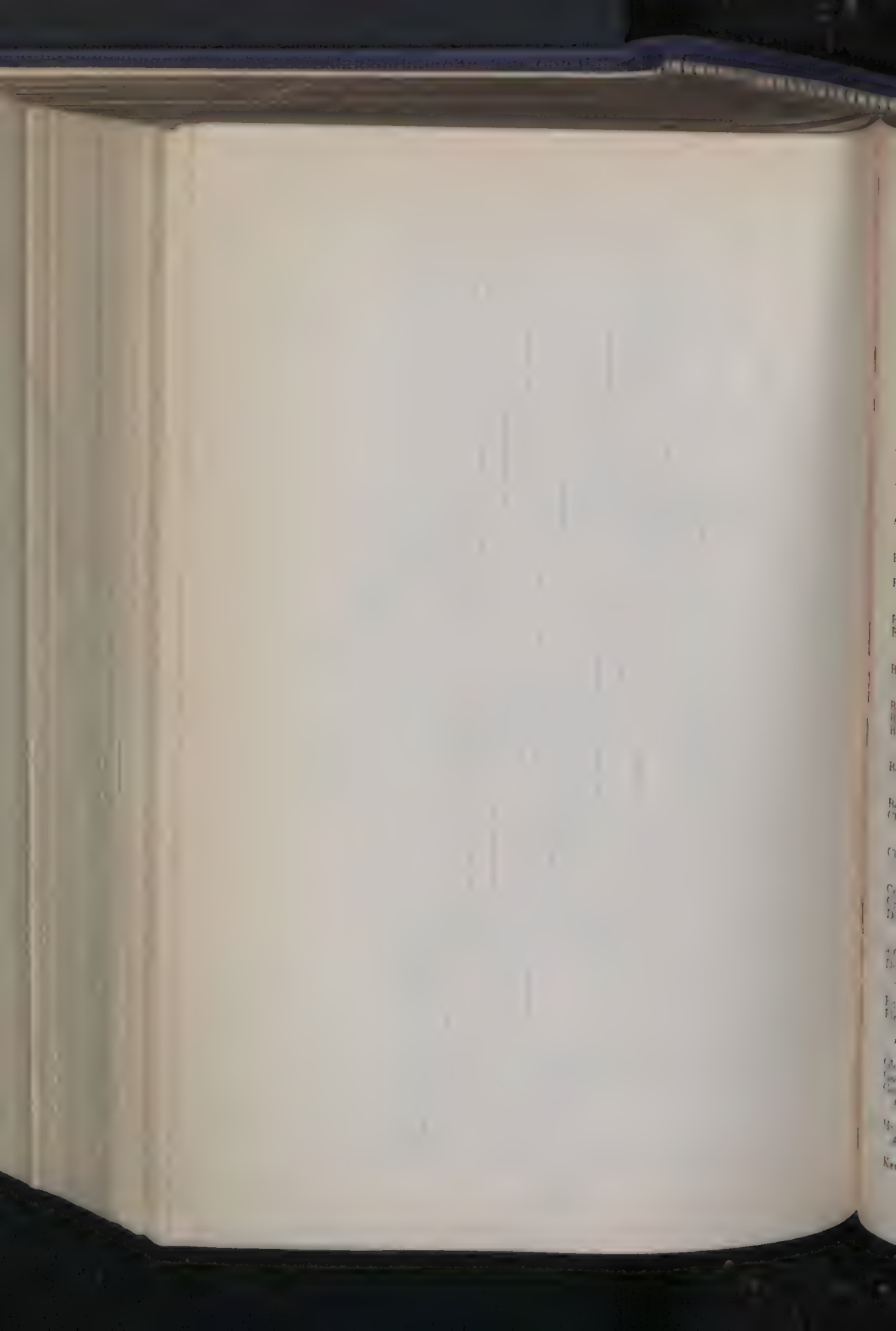
**SECTION SCHEDULE No. 6**  
**UNIVERSITY HOSPITAL : MONDAY, WEDNESDAY, AND FRIDAY**

SEC.	HOURS	1ST PERIOD	2D PERIOD	3D PERIOD	4TH PERIOD	5TH PERIOD	6TH PERIOD	7TH PERIOD	8TH PERIOD
7	9-10		Medicine Clinical Clerkship		Surgery Clinical Clerkship				
8	9-10		Surgery Clinical Clerkship		Medicine Clinical Clerkship				
7	10-12		Medicine Ward Walk		Surgery Ward Walk				
8	10-12		Surgery Ward Walk		Medicine Ward Walk				
7-8	12-1		Medical and Surgical Clinics						
3	9-10								
4	9-10					Medicine Clinical Clerkship		Surgery Clinical Clerkship	
3	10-12					Surgery Clinical Clerkship		Medicine Clinical Clerkship	
4	10-12					Medicine Ward Walk		Surgery Ward Walk	
3-4	12-1					Surgery Ward Walk		Medicine Ward Walk	
						Medical and Surgical Clinics			



SECTION SCHEDULE No. 7  
ST. ELIZABETH'S HOSPITAL : THURSDAY, 1-3 P.M.

Sec.	Hours	1ST PERIOD	2D PERIOD	3D PERIOD	4TH PERIOD	5TH PERIOD	6TH PERIOD	7TH PERIOD	8TH PERIOD
1-3	1-3	Neurology		Medicine	Surgery	Psychiatric Examinations			
3-4	1-3	Psychiatric Examinations		Neurology		Neurology	Medicine	Surgery	
5-6	1-3	Medicine	Surgery	Psychiatric Examinations		Psychiatric Examinations			
7-8	1-3	Psychiatric Examinations		Psychiatric Examinations		Medicine	Surgery	Neurology	
Entire class	3-6	Neurosyphilis (6 hours)		Neurology (26 hours)					



# DEGREES CONFERRED

1932-33

## DOCTOR OF MEDICINE

JUNE 15, 1932

Allen, Harry A.B. 1928, The George Washington University	N.Y.	Klein, Milton A.B. 1929, The George Washington University	N.Y.
Albert, Henry Rowland A.B. 1927, The George Washington University	N.Y.	Kleener, Samuel Franklin A.B. 1928, Kalamazoo College	Mich.
Amster, Milton William A.B. 1926, The George Washington University	N.Y.	Kroll, Mark M. A.B. 1929, The George Washington University	N.Y.
Baker, Arthur Gorham A.B. 1928, Swarthmore College	D.C.	Lafsky, Benjamin Paul A.B. 1929, The George Washington University	D.C.
Bell, George Lindsay Ph.D. 1929, A.B. 1930, The George Washington University	Md.	Lichtman, Paul A. Marquette, Frederick A. A.B. 1929, The George Washington University	D.C. P.R.
Barr, William Carlisle, II A.B. 1929, The George Washington University	D.C.	Merrill, Raymond Mehlich, Edward Ide A.B. 1929, The George Washington University	D.C. N.I.
Beames, Abraham I. A.B. 1929, The George Washington University	N.Y.	Mendelsohn, Matthew A.B. 1929, The George Washington University	D.C.
Bernberg, William Irving A.B. 1928, The George Washington University	N.Y.	Mulhern, W. Ed. Henry B.S. 1929, Duquesne University	Pa.
Birkman, Abe Birkston, William Stone A.B. 1929, The George Washington University	D.C. Md. N.Y.	Nelson, George Bailey B.S. 1929, Washington College	Md.
Birk, Henry S. A.B. 1929, The George Washington University	N.Y.	Noble, Joseph C. B.S. 1929, Heidelberg College	Canada
Boas, Louis C. A.B. 1929, The George Washington University	N.Y.	Olsen, Robert Mortimer Orleans, Henry Byron Parker, Katherine Elizabeth A.B. 1929, Brown College A.M. 1930, The George Washington University	Va. D.C. Ga.
Bowdell, Robert Felix Chase, Albert Stillman, II A.B. 1928, University of Southern California	Ohio Calif.	Rabinovitch, Duane Case Rosenfeld, Hyman S. A.B. 1928, The George Washington University	N.Y. N.Y.
Cliff, Arthur Edgar A.B. 1929, The George Washington University	D.C.	Scarborough, Marianne Schleser, Harry Bernard A.B. 1929, The George Washington University	Tex. N.Y.
Cornway, William Francis Crain, Danell Clayton, II Daly, Morris Marcus A.B. 1928, The George Washington University	Ariz. D.C. N.Y.	Shaffer, Charles Merritt B.S. 1928, Susquehanna University	Pa.
Gregory, Arnold Galileo Junglas, Harry Samuel A.B. 1929, The George Washington University	N.Y. D.C.	Smith, Hewitt Wyatt A.B. 1929, The George Washington University	Md.
Edmonston, Raphael Allen Fick, Charles Haven With distinction A.B. 1929, The George Washington University	D.C. Pa.	Sox, Carl Coughman B.S. 1929, University of South Carolina	S.C.
Glover, Marvin Wilbur Gonzalez, Pablo, I. Gottlieb, Stanley Joseph A.B. 1929, The George Washington University	D.C. Ariz. Pa.	Steinman, Herman Edwin Strawbridge, Francis Nelson A.B. 1929, The George Washington University	D.C. D.C.
Herman, I. Louis A.B. 1929, The George Washington University	N.Y.	Sutcliffe, Donald A.B. 1929, A.M. 1931, The George Washington University	D.C.
Kennedy, John Joseph	N.Y.	Susan, Frank Augustine B.S. 1930, University of Pittsburgh	Pa.

N

No. 4



Tanner, Ivins S.  
A.B. 1931, The George Washington  
University  
Troche, Carmen

Utah Weinstein, David Louis  
(With distinction)  
P.R. Williams, Angelo M.

D.C.  
Pa.

FEBRUARY 22, 1933

Jackson, John McIver  
A.B. 1928, Washington and Lee University Va.

# STUDENTS REGISTERED

1932-33

The names of all students registered in the School of Medicine during the academic year 1932-33 are listed below in alphabetical order. Roman numerals indicate the year of the course in which the student is registered. Students who were registered for the first semester only are indicated by a dagger (\*).

N

Abbe, Petrena (Med. I)	D.C.	Burke, Louis Clair (Med. I)	Pa.
Abramson, Herbert (Med. II)	D.C.	A.B. 1922, Pennsylvania State College	
A.B. 1924, A.M. 1925, The George Washington University		Burns, James Theodore (Med. I)	D.C.
Albert, Arnold (Med. II)	N.Y.	Butler, Henry Lee, jr. (Med. III)	Va
Albright, Lemuel Culp (Med. IV)	Pa.	Caruso, Anthony Thomas (Med. II)	N.J.
Altman, Nicholas Francis (Med. I)	N.J.	A.B. 1932, The George Washington University	
A.B. 1932, The George Washington University		Case, Paul H. (Med. III)	Ark.
Anderson, Lewis Philip (Med. I)	Md.	Castell, Richard B. (Med. II)	D.C.
Aster, Harry (Med. III)	Conn.	Cate, Leah Huntley (Med. II)	Vi
A.B. 1931, The George Washington University		A.B. 1932, The George Washington University	
Atiles, Alberto Diaz (Med. III)	P.R.	Ceppos, Jacob (Med. I)	D.C.
B.S. 1930, University of Puerto Rico		Chapin, Joseph (Med. I)	Me
Aud, W. Dudley (Med. II)	Md.	A.B. 1927, Bates College	
A.B. 1932, The George Washington University		Chase, Morris (Med. IV)	D.C.
Baer, George (Med. II)	D.C.	A.B. 1932, The George Washington University	
Baugh, Albert Joseph (Med. IV)	N.Y.	Chase, William David (Med. I)	Va
A.B. 1924, Holy Cross College		A.B. 1925, M.S. 1927, The George Washington University	
Baldwin, Stephen Golden (Med. I)	Ill.	Chen, Sui Fong (Med. I)	China
Baldwin, Gus (Med. IV)	N.Y.	Christensen, Osborne Frederick (Med. II)	N.J.
Barnes, Paul Herbert (Med. II)	Md.	Close, Byron Huntington (Med. III)	D.C.
A.B. 1932, The George Washington University		Cohen, Abe M. (Med. II)	
Beacher, Milton (Med. I)	N.Y.	A.B. 1932, The George Washington University	
Beard, William Henry (Med. IV)	D.C.	Cohn, Robert (Med. I)	D.C.
A.B. 1931, The George Washington University		B.S. 1931, The George Washington University	
Bell, Irma Harlett (Med. I)	S. Dak.	Coleman, William Ernest (Med. III)	D.C.
B.S. 1927, South Dakota State College		A.B. 1931, The George Washington University	
Belinsky, Harry Stephen (Med. IV)	Ohio	Cornett, Wesley Glen, Jr. (Med. I)	N. Mex.
A.B. 1925, Cornell University		B.S. 1930, University of New Mexico	
Berman, Leonard Stanley (Med. I)	D.C.	Contento, Salvatore Joseph (Med. II)	N.Y.
Bennett, Isabel (Med. I)	Mass.	B.S. 1931, Massachusetts College	
A.B. 1931, Radcliffe College		Conway, James Vincent (Med. III)	N.J.
A.M. 1932, The George Washington University		A.B. 1932, Cornell University	
Blazina, William Marion (Med. IV)	Pa.	Conway, William Hynes (Med. I)	N.Y.
B.S. 1932, University of Pittsburgh		Cox, Mary Irving (Med. III)	N.Y.
Bonaparte, Jasper Eugene (Med. I)	N.Y.	A.B. 1932, The George Washington University	
Brannin, William (Med. III)	Md.	Corey, Walter Van Arsdale (Med. IV)	N.Y.
A.B. 1931, The George Washington University		Crapp, John, James Vernon (Med. II)	Mass.
Bratt, Morris Allen (Med. IV)	N.Y.	A.B. 1931, Holy Cross College	
A.B. 1929, The George Washington University		Creer, J. Roscoe (Med. II)	Utah
Breslow, Samuel (Med. IV)	N.Y.	Cross, Allen Slayman (Med. II)	D.C.
Brevino, Abdo Emanuel (Med. I)	D.C.	Cummins, Louis R. (Med. III)	Utah
Brown, Louis Andrew (Med. III)	N.J.	A.B. 1930, The George Washington University	
Brockhart, Florence H. (Med. III)	Iowa	Danno, Samuel Peter (Med. IV)	N.J.
A.B. 1931, The George Washington University		Decker, Martin (Med. IV)	Wis.
Brown, Edith Louise (Med. II)	N.Y.	A.B. 1930, Capital University	
A.B. 1916, Hunter College		DeGoltano, Michael Rocco (Med. I)	N.J.
Brown, John Laurence (Med. IV)	Calif.	A.B. 1932, University of Alabama	

No. 4

deMarco, Joseph, jr. (Med. II)	Mass.	Glaubach, Nathan (Med. II)	D.C.
A.B. 1911, Clark University		A.B. 1932, The George Washington University	
Diamond, David (Med. II)	N.Y.	Goldberg, George I. (Med. III)	N.Y.
A.B. 1930, The George Washington University		A.B. 1931, The George Washington University	
Diamond, Herbert Harold (Med. II)	D.C.	Goldberger, Joseph Herman (Med. II)	D.C.
Domnick, John Frank (Med. I)	D.C.	A.B. 1932, The George Washington University	
Donahue, Victor Virgil (Med. III)	Ill.	Goldensohn, Leon Nathaniel (Med. I)	N.J.
D'Onofrio, Gregory Richard (Med. II)	N.Y.	A.B. 1932, Ohio State University	
B.S. 1911, University of Virginia		Gray, Seeley Nash (Med. IV)	Wis.
Dorset, Virgil Jackson (Med. III)	D.C.	A.B. 1929, American University	
A.B. 1931, The George Washington University		Greenberg, Milton M. (Med. IV)	D.C.
Dugan, Thomas Joseph, jr. (Med. I)	Ind.	Greenberg, Samuel Irving (Med. II)	N.Y.
Dubabek, James Albert (Med. III)	N.Dak.	A.B. 1932, The George Washington University	
Dye, Geneva Margaret (Med. IV)	D.C.	Gillo, James Anthony (Med. II)	Conn.
A.B. 1930, The George Washington University		B.S. 1911, Franklin and Marshall College	
Echavarria, Francisco (Med. I)	N.Y.	Ginsert, Maurice T. (Med. III)	N.Y.
Eklund, Raymond Thorwald (Med. III)	Calif.	A.B. 1911, The George Washington University	
A.B. 1910, Stanford University		Gross, Isidore (Med. IV)	N.Y.
Elder, Harry M. (Med. III)	Utah	A.B. 1920, The George Washington University	
A.B. 1920, University of Utah		Gruberman, Edward Isidor (Med. III)	N.Y.
Eliseo, Pasquale Pas (Med. IV)	N.Y.	Gustin, James William (Med. II)	Mich.
A.B. 1920, Columbia University		A.B. 1931, Alma College	
Ellis, Earl Cook (Med. IV)	Md.	Haines, Hilton Drummond (Med. III)	D.C.
B.S. 1927, Buena Vista College		Hall, William Jarvis (Med. I)	Idaho
Epstein, Joseph George (Med. IV)	N.Y.	B.S. 1932, University of Idaho	
A.B. 1920, The George Washington University		Hand, John Phelps, jr. (Med. IV)	D.C.
Epstein, Richard (Med. III)	N.Y.	A.B. 1932, Ohio Wesleyan University	Utah
A.B. 1930, The George Washington University		Hansen, Howard (Med. III)	D.C.
Farley, Ray F. (Med. IV)	N.J.	Harper, Howard Edward (Med. III)	
Faust, Mary Catherine (Med. II)	N.J.	A.B. 1925, Occidental College	Mont.
A.B. 1932, The George Washington University		Harper, Lamar Blewett (Med. I)	D.C.
Feldman, Irvin (Med. IV)	D.C.	Harrell, Jerome Blaine (Med. I)	Del.
A.B. 1930, The George Washington University		Hart, George Alexis (Med. IV)	
Feller, William (Med. III)	N.J.	A.B. 1920, University of Pennsylvania	Ohio
B.S. 1920, Rutgers University		Hart, Virgil Cooley (Med. II)	
A.M. 1926, The George Washington University		A.B. 1931, Oberlin College	Va.
Ferguson, Edward Egner (Med. I)	D.C.	Hartman, Clarence Richard (Med. I)	W.Va.
Ferraioli, E. Blas (Med. I)	P.R.	Hatton, Don Virgil (Med. I)	D.C.
Fine, Irvin Jack (Med. III)	N.J.	Havell, Robert Barron (Med. II)	
A.B. 1911, The George Washington University		B.S. 1931, University of Maryland	Pt.
Fischbach, Adolph David (Med. I)	N.Y.	Helwig, Frederick George (Med. I)	
A.B. 1912, Catawba College		B.S. 1932, Franklin and Marshall College	N.Y.
Flood, Clyde E. (Med. III)	Ariz.	Henderson, James Alex (Med. III)	
Foster, Major Schuessler (Med. IV)	Ala.	A.B. 1920, Washington and Lee University	Calif.
B.S. 1928, Alabama Polytechnic Institute		Hess, Rolla Burchard (Med. IV)	Utah
Fugitt, Elmer Wink (Med. IV)	D.C.	Hins, Vernet Harold (Med. II)	D.C.
Fusfeld, Cecile Leban (Med. II)	D.C.	Hobart, Harold McComb (Med. I)	
Gallardo, José Arturo (Med. I)	P.R.	B.S. 1930, Alma College	D.C.
B.S. 1911, A.M. 1912, The George Washington University		Hoover, William Mitchell, jr. (Med. II)	
Gelpi, William P. (Med. IV)	D.C.	A.B. 1932, The George Washington University	N.Y.
Genova, Albert John (Med. I)	Conn.	Horowitz, Samuel (Med. II)	D.C.
Gerber, Aaron Harry (Med. III)	D.C.	Howard, William J. P. (Med. I)	
A.B. 1930, The George Washington University		B.S. 1932, The George Washington University	Pt.
Gerber, Leon (Med. I)	D.C.	Hudson, George Henry (Med. III)	
Gervurtz, Frank Edward (Med. I)	Conn.	B.S. 1910, St. Vincent College	Mo.
A.B. 1932, The George Washington University		Hunt, Thelma (Med. II)	
Glassman, Samuel (Med. I)	N.Y.	A.B. 1924, A.M. 1925, Ph.D. 1927, The George Washington University	D.C.
		Hunter, Maurice deCous (Med. I)	
		A.B. 1932, The George Washington University	

Hutto, George Mahlon (Med. I)	Ind.	Magee, William George (Med. I)	D.C.
A.B. 1922, The George Washington University		Maher, Edward Joseph (Med. II)	Calif.
Hyslop, Edward William (Med. I)	Pa.	A.B. 1926, University of California	
B.S. 1927, M.S. 1928, Gettysburg College		Manchester, Benjamin (Med. II)	D.C.
Inglis, Herman (Med. IV)	N.J.	Mandy, Arthur Jennings (Med. II)	D.C.
Jackson, Ruth (Med. IV)	D.C.	Mandy, Theodore Edward (Med. III)	D.C.
A.B. 1927, M.S. 1931, The George Washington University		A.B. 1931, The George Washington University	
Jacobs, William (Med. II)	N.I.	Mangione, Anthony Joseph (Med. II)	Pa.
A.B. 1926, Rutgers University		Marion, Joseph (Med. IV)	Calif.
Johnson, Benjamin Burton (Med. II)	Ariz.	B.S. 1926, Kenyon College	
B.S. 1931, Brigham Young University		Martin, Eugene Maurice (Med. I)	D.C.
Josephson, Irving I. (Med. II)	N.Y.	Mastellone, Arnold Francis (Med. II)	N.Y.
A.B. 1930, University of Alabama		B.S. 1931, Manhattan College	
Karol, Naomi Marilyn (Med. III)	N.Y.	Max, William P. (Med. II)	D.C.
A.B. 1931, The George Washington University		A.B. 1932, The George Washington University	
Kassan, Robert Jack (Med. I)	D.C.	McDonnell, Evelyn D. (Med. I)	N.Y.
Kear, Ralph Herbert (Med. IV)	Utah	B.S. 1936, Manhattan College	
A.B. 1930, University of Utah		McNutt, Agnes Louise (Med. I)	D.C.
Kerr, Edgar Joseph (Med. III)	Pa.	McQuarrie, Urban Bruce (Med. II)	D.C.
B.S. 1927, St. Vincent College		Medham, George Stanley Kamp (Med. IV)	Pa.
Kerr, Richard Isaac (Med. III)	N.Y.	B.S. 1936, University of Pittsburgh	
A.B. 1931, The George Washington University		Mee, Richard Carl (Med. III)	Conn.
Kirk, James David (Med. III)	China	A.B. 1931, The George Washington University	
A.B. 1931, Miami University		Messenger, William Jack (Med. I)	N.Y.
Korman, Aaron Hays (Med. III)	D.C.	Miles, Nathan Estelle (Med. IV)	Va.
A.B. 1931, The George Washington University		A.B. 1936, The George Washington University	
Kline, Walter Lee (Med. II)	Mid. Iowa	Miller, Nathan (Med. IV)	N.I.
Kline, John A. (Med. I)	D.C.	A.B. 1931, The George Washington University	
Kline, William Luther (Med. III)		Miller, William Sterling (Med. IV)	Va.
A.B. 1931, The George Washington University		Minsky, Arthur (Med. III)	N.Y.
Kramer, Milton (Med. III)	N.Y.	A.B. 1936, The George Washington University	
A.B. 1931, The George Washington University		Mira, Anthony Agathon (Med. IV)	N.Y.
Kuhner, Elizabeth Yahl (Med. I)	Ohio	B.S. 1931, College of the City of New York	
Kurtz, John Herman (Med. II)	Mich.	Mish, Kemp Hammond (Med. IV)	D.C.
A.B. 1930, Kalamazoo College		Mitsun, Jacques Henri (Med. IV)	Pa.
Kushnir, I. Joseph (Med. III)	D.C.	Morgan, Allan Vincent (Med. IV)	Pa.
A.B. 1930, The George Washington University		B.S. 1931, University of Pittsburgh	
Labor, R. Vernon (Med. II)	Utah	Morrow, Montgomery (Med. I)	D.C.
B.S. 1926, Utah State Agricultural College		Nathanson, Leon Irving (Med. I)	D.C.
Lacey, Andrew Louis (Med. IV)	N.I.	No. 20, Paul F. et (Med. III)	Pa.
B.S. 1929, Lebanon Valley College		B.S. 1931, Allegheny College	Ga.
Lachman, Julius (Med. II)	N.Y.	Norton, Robert Fouché (Med. III)	N.J.
Lachman, George Paul (Med. III)	Va.	Ochler, Irving (Med. III)	
A.B. 1931, The George Washington University		A.B. 1931, The George Washington University	
Lane, Nathan George (Med. IV)	N.I.	Ogus, Alfred (Med. II)	D.C.
A.B. 1930, The George Washington University		Opasli, Harold E. (Med. II)	Minn.
Lane, Abraham Al (Med. I)	D.C.	Orten, Ervin Deering (Med. III)	N.Y.
A.B. 1931, The George Washington University		Ottis, Harold Julius (Med. III)	N.J.
Lane, Arthur Harry (Med. II)	D.C.	A.B. 1931, The George Washington University	
A.B. 1931, Marshall College		Panzarella, Joseph Albert (Med. II)	N.Y.
Lepore, Samuel (Med. III)	N.Y.	A.B. 1931, The George Washington University	
A.B. 1931, The George Washington University		Parent, Ernest James (Med. II)	D.C.
Lewy, Angelo Arthur (Med. II)	Mass.	B.S. 1931, Catholic University of America	
B.S. 1931, Tufts College		Prekman, Henry Lincoln (Med. III)	D.C.
Levander, Philip F. (Med. I)	N.Y.	A.B. 1931, The George Washington University	
A.B. 1930, University of Wisconsin		Pensky, Nathan (Med. IV)	N.Y.
		A.B. 1930, The George Washington University	

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No. 4



Perlson, Joseph (Med. II) A.B. 1931, University of Wisconsin	Wis.	Sheimel, Archie (Med. III) A.B. 1931, The George Washington University	N.Y.
Pinecock, Glen (Med. III)	D.C.	Shreehan, Hubert Francis (Med. III)	N.Y.
Popkin, Michael Sherman (Med. II)	Conn.	Shulman, Isidore (Med. III) A.B. 1931, The George Washington University	D.C.
Presti, Arthur Anthony (Med. II) A.B. 1931, Hiram College	Ohio	Shupe, Reed Dalton (Med. IV)	Ala.
Price, Lance Charles (Med. IV)	N.Y.	Siegel, Victor (Med. I)	N.Y.
Prusian, George (Med. IV)	N.Y.	Silverman, Morris (Med. IV) A.B. 1929, The George Washington University	D.C.
A.B. 1930, The George Washington University		Simonton, Kinsey Macleod (Med. IV) A.B. 1930, The George Washington University	Idaho
Qualheim, Clarence B. (Med. II)	Wash.	Sica, Anthony Vernon (Med. II)	N.Y.
B.S. 1931, University of Washington	P.R.	Skelly, John F. (Med. III)	N.Y.
Quinones, Pascasio (Med. I)	Pa.	Smilgan, Victor Edward (Med. II)	D.C.
Rack, Morris Alfonso (Med. III) B.S. 1932, University of Pittsburgh	D.C.	Smith, C. Ronald (Med. II) B.S. 1929, Utah State Agricultural College	Utah
Radice, Julius John (Med. II)	D.C.	Smith, F. Wells (Med. I)	N.Y.
A.B. 1930, University of Maryland	D.C.	Smith, John Beverly (Med. I)	D.C.
Raffel, William (Med. II)	D.C.	Snyder, Carolyn Hannah (Med. III) A.B. 1931, The George Washington University	D.C.
Reeves, Clyde Pinkney (Med. IV)	N.Y.	Snyder, James Leslie (Med. IV) B.S. 1928, M.S. 1929, University of Washington	Wash.
Reives, George William (Med. III)	N.Y.	Snyder, Luther Henry (Med. II) A.B. 1931, Gettysburg College	D.C.
Reif, Benjamin F. (Med. IV) A.B. 1929, The George Washington University	N.Y.	Somers, Charles Irving (Med. IV) A.B. 1929, St. John's College	Md.
Reif, Irving Lester (Med. I)	N.Y.	Sorrell, William George (Med. I)	D.C.
B.S. 1932, University of Virginia	Panama	Spicknall, Charles G. (Med. I)	Ala.
Revilla, Antonio Gonzalez (Med. I)	La.	Spirito, Michael William (Med. I) B.S. 1932, The George Washington University	N.Y.
Richard, d'Albert Joseph (Med. II)	D.C.	Springer, Morris (Med. II) A.B. 1930, University of Alabama	N.Y.
Richardson, Francis Xavier (Med. IV)	D.C.	M.S. 1932, New York University	N.Y.
Richwine, Alfred Henry (Med. IV)	D.C.	Spritzer, Theodore David (Med. III) B.S. 1929, M.S. 1930, Rutgers University	Md.
Richwine, Barton Winters (Med. III)	D.C.	Stanton, Alfred Hodgkin (Med. I)	Ohio
Rozche, Fred Branning (Med. III) A.B. 1931, The George Washington University	Ky.	Steinberg, Abe Henry (Med. II) B.S. 1931, University of Toronto	Utah
Robb, Harry Joseph (Med. IV)	Pa.	Stevenson, Robert E. (Med. III)	Idaho
B.S. 1929, University of Pittsburgh	D.C.	Suecann, Umberto C. (Med. III) A.B. 1931, The George Washington University	N.Y.
Robbins, Irving (Med. III) B.S. 1929, M.S. 1930, New York University	N.Y.	Sullivan, Norbert Paul (Med. III) B.S. 1931, New York University	D.C.
Robbins, Nathan (Med. II)	N.Y.	Sullivan, Richard T. (Med. II)	D.C.
A.B. 1930, Syracuse University	N.Y.	Suraci, Alfred John (Med. I)	D.C.
A.M. 1931, The George Washington University	N.Y.	Suter, James Marion (Med. III) A.B. 1930, The George Washington University	Idaho
Robinson, Murry M. (Med. II) A.B. 1931, The George Washington University	Md.	Tall, Aldon (Med. I) B.S. 1930, University of Idaho	N.Y.
Rogge, Edgar A. (Med. II)	Wash.	Tarasuk, Irving (Med. II) A.B. 1931, University of North Dakota	N.Y.
Ross, Peter William (Med. IV) B.S. 1932, University of Pittsburgh	Pa.	Torrell, William Dandridge, Jr. (Med. III)	D.C.
A.B. 1931, Albion College	Mich.	Thom, Alfred Pembroke (Med. II)	D.C.
Rude, Gilbert Britt (Med. III)	D.C.	Thompson, J. Edwin, Jr. (Med. I)	P.R.
Rudner, Cecil (Med. I)	N.Y.	Loftis, A. John, Jr. (Med. IV)	D.C.
Russolillo, Francis Edward (Med. I)	Conn.	Lozano, George (Med. I)	N.Y.
Sacks, Harry (Med. I)	D.C.	Topperman, Samuel (Med. IV)	N.Y.
Sanger, Emerson Joseph (Med. III) B.S. 1931, Hilldale College	Mich.	Valente, Frank Natale (Med. II) B.S. 1930, Manhattan College	N.Y.
Schall, Clayton Melford (Med. III)	Wash.		
B.S. 1929, University of Washington	N.Y.		
Schell, Anthony Joseph (Med. II) A.B. 1931, St. John's College	N.Y.		
Shank, John I. (Med. III) A.B. 1930, Ohio Wesleyan University	Ohio		
Shapiro, Frank (Med. I) A.B. 1930, The George Washington University	N.Y.		
Shea, Samuel Hazen (Med. I)	D.C.		
Sheedy, Leo Patrick (Med. IV)	Pa.		

# *The School of Medicine*

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Vedder, Henry Clay (Med. I)	D.C.	Wilchik, Isidore (Med. II)	N.Y.
Vogue, Charles Everett (Med. I)	Me.	A.B. 1937, The George Washington University	
A.B. 1920, Colby College		Wise, Henry B. (Med. IV)	Calif.
Weber, Charles Lynn (Med. I)	Pa.	Wood, William Edwin (Med. II)	D.C.
Weeks, Norman Ernest (Med. IV)	D.C.	B.S. 1924, Utah State Agricultural College	
Weinstein, Irvine (Med. II)	N.Y.	Young, Grace V. (Med. III)	D.C.
B.S. 1911, College of the City of New York		A.B. 1927, The George Washington University	
Weller, Margaret Catherine (Med. III)	D.C.	Young, Clarence Edgar, II (Med. III)	Ariz.
A.B. 1911, The George Washington University		B.S. 1928, University of Arizona	
Williams, Duvall McClellan (Med. I)	D.C.	Zandens, Sadie Helene (Med. IV)	N.Y.
A.B. 1926, University of North Carolina		Zoia, Sam (Med. I)	D.C.

# SUMMARIES OF REGISTRATION

1932-33

## NUMBER OF REGISTRATIONS

First year .....	81
Second year .....	71
Third year .....	73
Fourth year .....	69
Total .....	294

## GEOGRAPHICAL DISTRIBUTION OF STUDENTS

Alabama .....	2	Minnesota .....	1
Arizona .....	5	Montana .....	1
California .....	7	New Jersey .....	25
China .....	2	New Mexico .....	1
Connecticut .....	7	New York .....	60
Delaware .....	1	North Dakota .....	1
District of Columbia .....	89	Ohio .....	6
Ecuador .....	1	Panama .....	1
Georgia .....	1	Pennsylvania .....	17
Idaho .....	3	Puerto Rico .....	5
Illinois .....	2	South Dakota .....	1
Indiana .....	2	Utah .....	9
Iowa .....	2	Vermont .....	1
Kentucky .....	1	Virginia .....	7
Louisiana .....	1	Washington .....	4
Maine .....	1	West Virginia .....	1
Maryland .....	11	Wisconsin .....	3
Massachusetts .....	4	Total .....	291
Michigan .....	4		

## GRADUATES OF COLLEGES REGISTERED IN THE SCHOOL OF MEDICINE

Alabama Polytechnic Institute .....	1	Colby College .....	2
Alabama, University of .....	3	College of the City of New York .....	1
Albion College .....	1	Columbia University .....	2
Allegheny College .....	1	Cornell University .....	2
Alma College .....	2	Franklin and Marshall College .....	83
American University .....	1	George Washington University .....	1
Arizona, University of .....	1	Gerritsburg College .....	1
Bates College .....	1	Hillsdale College .....	1
Brigham Young University .....	1	Hiram College .....	2
Buena Vista College .....	1	Holy Cross College of the .....	1
California, University of .....	1	Hunter College .....	1
Capital University .....	1	Kalamazoo College .....	2
Carawba College .....	1	Idaho, University of .....	1
Catholic University of America .....	1	Kenyon College .....	1
Clark University .....	1	Lebanon Valley College .....	

Manhattan College.....	4	Rutgers University.....	3
Marshall College.....	1	St. John's College.....	2
Maryland, University of.....	2	St. Vincent College.....	2
Miami University.....	1	South Dakota State College.....	1
New Mexico, University of.....	1	Stanford University.....	1
New York University.....	2	Syracuse University.....	1
North Carolina, University of.....	1	Toledo, University of.....	1
North Dakota, University of.....	1	Tufts College.....	1
Oberlin College.....	1	Utah, Agricultural College of.....	3
Occidental College.....	1	Utah, University of.....	2
Ohio State University.....	1	Virginia, University of.....	2
Ohio Wesleyan University.....	2	Washington and Lee University.....	1
Pennsylvania State College.....	1	Washington, University of.....	3
Pennsylvania, University of.....	1	Wisconsin, University of.....	2
Pittsburgh, University of.....	6	Yale University.....	1
Puerto Rico, University of.....	1	Total number of colleges.....	62
Radeliffe College.....	1	Total number of students.....	175



# INTERNSHIPS, CLASS OF 1932

Name	Hospital	City
Adler, Harry	Beth David Hospital	New York City
Alpert, Henry R.	Kings County Hospital	Brooklyn, N. Y.
Amster, Milton W.	No internship	
Baker, Arthur G.	Germantown Hospital	Germantown, Pa.
Ball, George J.	Scholey Hospital	Washington, D. C.
Bart, William Carlisle	Scholey Hospital	Washington, D. C.
Beach, Abraham I.	County Hospital	Brooklyn, N. Y.
Bernberg, William I.	Jersey City Medical Center	Jersey City, N. J.
Blaswas, Abe	St. Peter's Hospital	Baltimore, Md.
Blackston, William S.	Gallinger Hospital	Washington, D. C.
Blank, Henry	Cumberland Hospital	Brooklyn, N. Y.
Boas, Louis Charles	Beth El Hospital	Brooklyn, N. Y.
Boaswell, Robert Elio	Miami Valley Hospital	Dayton, Ohio
Chase, Albert S. (man)	Los Angeles County General Hospital	Los Angeles, Calif.
Chiff, Arthur Edgar	Scholey Hospital	Washington, D. C.
Conway, William E.	No internship	
Crain, Darnall Clayton	Emergency Hospital	Washington, D. C.
Dick, Morris Marcus	Jewish Memorial Hospital	New York City
DiGregorio, Arnold Gabriel	No internship	
Douglas, Harry Samuel	Grace Hospital	New Haven, Conn.
Edmonston, Raphael Allen	Emergency Hospital	Washington, D. C.
Fleck, Charles Hayden	Germantown Hospital	Germantown, Pa.
Glover, Merion Wilbur	Greater Washington Hospital	Washington, D. C.
Gonzalez, Pablo	U. S. California Hospital	Los Angeles, Calif.
Gordon, Stanley Joseph	Emergency Hospital	Washington, D. C.
Hoffman, Isidore Louis	Beth El Hospital	Brooklyn, N. Y.
Kennedy, John J.	No internship	
Klein, Milton	Beth Moses Hospital	Brooklyn, N. Y.
Kleiner, Samuel Franklin	Haley Hospital	Flint, Mich.
Kroll, Mark M.	St. Peter's General Hospital	New York City
Lafsky, Benjamin Paul	Gallinger Hospital	Washington, D. C.
Lichtman, Paul A.	Gallinger Hospital	Washington, D. C.
Marquez, Francisco A.	San Juan Municipal Hospital	San Juan, P. R.
Meira, Raymond	Emergency Hospital	Washington, D. C.
Mench, Edward Liel	Jersey City Medical Center	Jersey City, N. J.
Mendelsohn, Matthew	West Baltimore General Hospital	Baltimore, Md.
Mulhearn, William Henry	St. Francis Hospital	Pittsburgh, Pa.
Nelson, George Bailey	The Woman's Hospital	Cleveland, Ohio
Noah, Joseph Cyril	St. Joseph's Hospital	Pittsburgh, Pa.
Olson, Robert Mortimer	Union Memorial Hospital	Baltimore, Md.
Orleans, Harry	Providence Hospital	Washington, D. C.
Parker, Elizabeth	George Washington Hospital	Washington, D. C.
R. (name), Duane Case	George Washington Hospital	Washington, D. C.
Rosenfeld, Hyman Samuel	United Israel Zion Hospital	Brooklyn, N. Y.
Sackin, Marguerite	Gallinger Hospital	Washington, D. C.
Schuber, Harry Bernard	Lama Hospital	Richmond Hill, N. Y.
Shaffer, Charles Merritt	Physic Hospital	Harrisburg, Pa.
Smith, Howard Waver	Delaware Hospital	Wilmington, Del.
Sox, Carl Caughman	Spartanburg General Hospital	Spartanburg, S. C.
Steinman, H. Erwin	Scholey Hospital	Washington, D. C.
Strawbridge, Francis N.	Scholey Hospital	Washington, D. C.
Stubbs, Donald Harrison	Emergency Hospital	Washington, D. C.
Suzan, Frank Augustine	Providence Hospital	Washington, D. C.
Tanner, Irvin S.	Seaton Island Hospital	New York City
Troche, Carmen	Hospital of School of Tropical Medicine	San Juan, P. R.
Weinstein, David Louis	George Washington Hospital	Washington, D. C.
Williams, Angelo Muollo	St. Joseph's Hospital	Pittsburgh, Pa.

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THE LAW SCHOOL  
1933-34



THE  
GEORGE  
WASHINGTON  
UNIVERSITY  
BULLETIN

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VOL. XXXII

No. 4

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THE LAW SCHOOL

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WASHINGTON, D. C.

PUBLISHED IN JUNE

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1933

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# CALENDAR OF THE LAW SCHOOL

1933-34

Date	Days	Occasion
1933:		
September 18-19	Monday and Tuesday	Registration period for the first semester
September 20	Wednesday	Academic year begins
October 3	Tuesday	Last day for late registration for the first semester
October 18	Wednesday	Fall Convocation
November 30-December 2	Thursday to Saturday, both dates inclusive	Thanksgiving recess
December 21-January 2	Thursday to Tuesday, both dates inclusive	Christmas recess
1934:		
January 3	Wednesday	Classes resumed
January 8	Monday	Last day for applications for degrees to be conferred in February
January 8-19	Monday to Friday, both dates inclusive	Preregistration period for the second semester
January 20-27	Saturday to Saturday, both dates inclusive	Midyear examination period
January 31-February 1	Wednesday and Thursday	Registration period for the second semester
February 2	Friday	Classes resumed for the second semester
February 15	Thursday	Last day for late registration for the second semester
February 22	Thursday	Midwinter Convocation. Holiday
March 30-April 4	Friday to Wednesday, both dates inclusive	Easter recess
May 1	Tuesday	Last day for applications for degrees to be conferred in June
May 16-June 2	Wednesday to Saturday, both dates inclusive	Final-examination period
May 30	Wednesday	Memorial Day. Holiday
June 3	Sunday	Baccalaureate Sermon
June 6	Wednesday	Commencement
June 11	Monday	First summer term begins
July 25	Wednesday	First summer term ends
July 26	Thursday	Second summer term begins
September 8	Saturday	Second summer term ends
September 17-18	Monday and Tuesday	Registration period for the first semester of the academic year 1934-35





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The Board of Trustees of the University is comprised of the President of the University, ex officio, and the following persons by election:

1934

- John Henry Cowles, 1733 Sixteenth Street.
- Robert Vedder Fleming, Riggs National Bank.
- Julius Garfinckel, Fourteenth and F Streets.
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- Arthur Peter, LL.B., Washington Loan and Trust Building.
- Mrs. Henry Alvah Strong, The Mayflower.
- Merle Thorpe, A.B., United States Chamber of Commerce Building.
- \*Alfred Adams Wheat, A.B., LL.B., LL.D., District Court House.

1935

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- \*John Joy Edson, LL.B., 915 F Street.
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- Abram Lisner, A.M., 1723 Massachusetts Avenue.
- Charles Riborg Mann, Ph.D., Sc.D., 744 Jackson Place.
- Walter Rupert Tuckerman, A.B., LL.B., Bethesda, Md.

1936

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\* On sabbatical leave first semester 1933-34.



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James Oliver Murdock, Ph.B., LL.B., *Lecturer in Law.*  
Frederick Charles O'Connell, LL.M., *Associate in Law and Clerk of the Moot Court.*

\* On sabbatical leave first semester 1923-24.



## MOOT COURT OF APPEALS

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William Armstrong Hunter

Charles Sager Collier

Walter Lewis Moll

James Forrester Davison

Saul Chesterfield Oppenheim

William Thomas Fryer

Hector Galloway Spaulding

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The Law Librarian

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Saul Chesterfield Oppenheim

## ADVISER TO PRELEGAL STUDENTS

Carville Dickinson Benson, jr.

## GENERAL INFORMATION

## INTRODUCTORY

The George Washington University Law School, established in 1826, discontinued somewhat later, and reorganized in 1865, is the oldest in the District of Columbia. The course of instruction for the degree of

\* The President of the University and the Dean of the Law School are ex-officio members of all committees.

† Elected by the Faculty

Bachelor of Laws, originally requiring two years, was increased in 1898 to three years. A course leading to the degree of Master of Laws was added in 1877. In 1900 the School took part in the organization of the Association of American Law Schools and has been a member of the Association since that time. In 1911 the School became coeducational. In 1924 the late afternoon course for students with limited schedules was increased to four years. On September 1, 1925, the entrance requirements were increased to two years of college work. The School is approved by the Council of Legal Education of the American Bar Association. Since September 1, 1925, it has occupied a new building, designed and constructed for its use. This building has been named Stockton Hall in honor of the late Rear Admiral Charles H. Stockton, President of the University from 1910 to 1918. The building contains nine classrooms, library space with a maximum capacity of 40,000 volumes, and ten offices for professors.

#### THE LIBRARY

The Law School Library contains the decisions of the highest courts of all the States, the Reports of the United States Supreme Court and other Federal courts, the English Reprints and English Law Reports, the United States Statutes, the statutes of all of the States, the English statutes, the principal English and American digests, legal encyclopedias and collections of annotated cases, and the leading textbooks and legal periodicals.

The library is open from 9 a.m. to 11 p.m. on week days and from 2 to 6 p.m. on Sundays.

#### THE LAW REVIEW

*The George Washington Law Review*, published quarterly by the University, is edited by the Faculty and students of the Law School. It is devoted exclusively to the field of governmental and Federal public law. The location of the University in the Nation's Capital, where the primary sources of Federal public law may be observed in operation, affords a unique opportunity for specialization in this field. Each issue includes leading articles, student editorials, notes on recent cases, and book reviews. Among the subjects included in this field are administrative law, admiralty, constitutional law, federal trade commission, international law, interstate commerce, immigration, patents, copyrights, trade marks, taxation, trade regulation, tariff commission, radio commission, and veteran's administration.

The editorial work of the *Review* is in charge of a Faculty editor-in-chief, a Faculty board of associate editors, a board of departmental advisory editors, and a board of student editors. The thirty-five student editors are chosen each year from those students who have completed forty semester-hours or more with an average of B or better. Membership

on the student editorial board is one of the highest honors as well as one of the most valuable experiences which may be attained by the law student.

#### ADMISSION

For a statement of the general regulations and procedure for admission to the University, see pages 48-52 of the University catalogue.

Applications for admission and certificates of prelegal study should be filed with the Director of Admissions not later than two weeks before the registration period. Applications for admission with advanced standing should be filed with the Dean of the Law School not later than ten days before the registration period.

#### FOR THE BACHELOR OF LAWS DEGREE

Candidates for this degree must have completed before admission fifteen units of approved secondary-school work, and at least two years—sixty semester-hour credits—of approved college work. The completion of this work must be evidenced by proper certificates. In no case will a student be admitted with a condition in any part of the entrance requirement. An application for admission may be rejected on the ground of unsatisfactory scholarship in prelegal studies.

The college work required for admission may be completed in the Junior College of The George Washington University. Applicants for such college work should communicate with the Director of Admissions of the University.

#### ADVANCED STANDING

Students from approved law schools may receive not more than two years' credit toward the degree of Bachelor of Laws for work done in such schools. Applicants for admission with advanced standing must file certified transcripts of record showing high-school, college, and law credits. The right is reserved to refuse such credit, in whole or in part, or to allow it conditionally or after examination, and credit given may be withdrawn for subsequent poor work. No student will be admitted who has been in attendance at another law school and is ineligible, because of poor scholarship, to return to that school.

Students intending to attend summer school sessions at other law schools and desiring to use credits obtained at such schools in their course for the degree of Bachelor of Laws at this Law School, must first have the courses they wish to take approved by the Dean. In no event will credits be recognized in excess of those which might be obtained in a similar period in this School.

#### FOR THE MASTER OF LAWS DEGREE

Candidates for this degree must have completed at the time of their admission not less than two years of work in an approved college, must



have received the degree of Bachelor of Laws or an equivalent degree from an accredited law school, and must have attained in the course for the law degree an average grade equivalent to the grade of *B* in this Law School or must have been admitted by special action of the Dean's Council.

#### UNCLASSIFIED STUDENTS

Persons eligible for admission to regular standing may, in the discretion of the Dean, be admitted as unclassified students, to courses aggregating not more than four hours a week.

#### UNIVERSITY STUDENTS IN LAW

A limited number of persons who cannot qualify as candidates for a degree in Law, but who are over twenty-five years of age and because of their maturity, training, and experience seem qualified to pursue the study of Law, may be admitted to the Division of University and Extension Students as "university" students. Candidates for admission as university students in Law must file written applications, setting forth their qualifications in detail, and letters and certificates to prove the facts stated therein as to their education and experience. Work done by such university students will not be counted toward a degree.

#### REGISTRATION

Before attending classes each student must present himself in person for registration. No student will be registered in the Law School until proper credentials have been filed and approved by the proper officers of the University (see "Admission", above).

Only with the approval of the Dean's Council may a student be permitted to register in the second semester of a year subject before he has completed the attendance in the first semester of that subject.

In all cases where students are permitted to register in one semester of a year subject, they must register for the other semester of that subject not later than one calendar year from the time the attendance in the first semester was completed.

Registration is permitted at the beginning of either semester. Students beginning the study of Law in the second semester, however, may pursue only a limited schedule. If such students complete the course in Contracts and Criminal Law in the second semester and Personal Property and Torts in the following summer session, they may, during the following academic year, take the course of study recommended for second-year late-afternoon students.

Qualified students who are entitled to advanced standing on records from other approved law schools or who have completed courses at this Law School during former periods of attendance, may register at the



beginning of the second semester for subjects which commence at that time, but not for year subjects.

Registration days for the academic year 1933-34 will be Monday and Tuesday, September 18 and 19, 1933, and Wednesday and Thursday, January 31 and February 1, 1934. Except where special permission is given, students must register on the regular registration days. A late-registration fee of \$5 will be charged each student who is permitted to register after the regular registration days. No registration may be made for a semester subject after the first two weeks of a semester, or for a year subject after the first four weeks of the year.

Registration may be changed only with the permission of the Dean. A fee of \$2 will be charged for each such change.

For further information regarding registration, see pages 53-54 of the University catalogue.

#### FEES AND FINANCIAL REGULATIONS

University fee, for each semester or for any part thereof.....	\$8.00
Tuition fee, for each semester-hour credit of courses taken (minimum charge for one semester, \$24).....	8.00
Graduation fee.....	20.00
Fee for special examinations, for each subject.....	5.00
Late-registration fee, charged students who fail to register within the designated period.....	5.00
Reinstatement fee, charged students who are reinstated after being suspended for delinquency in fees.....	5.00
Change fee, for each change in program after registration.....	2.00

#### THE UNIVERSITY FEE

Payment of the University fee, charged all students, secures to them the following student-activity privileges: (1) gymnasium privileges, including participation in intra-university athletic sports, and the use of the University tennis courts; (2) the *University Hatchet*, the official student newspaper, which is issued weekly; (3) admission to home athletic contests, unless otherwise specified; (4) admission to University debates; (5) the services of the Department of Health Administration.

#### PAYMENT OF FEES

All fees are payable at the Office of the Comptroller, 2033 G Street NW. No student is permitted to complete registration or to attend classes until all fees are paid. Fees for each semester are due and payable in advance at the time of registration.

In exceptional cases, subject to the approval of the Comptroller, students registering for more than three semester-hours may sign contracts for semester charges, except for the University fee and deposits, permitting instalment payments as follows: First semester—one third at

the time of registration, plus the University fee and deposits; one third on November 1; one third on December 1. Second semester—one third at the time of registration, plus the University fee and deposits; one third on March 1; one third on April 1. Students registering for three hours or less, and students in the School of Medicine, are not privileged to sign contracts for instalment payments.

Students who fail to meet instalment payments by the sixteenth of the month will be suspended and may not attend classes until they have paid all accrued fees, a reinstatement fee of \$5, and have been officially reinstated. A suspended student may not be reinstated for the semester after two weeks from the date of suspension. Applications for reinstatement are to be made to the Dean of the School or Director of the Division in which the student is registered.

No student may register in any department of the University who owes fees in any other department of the University.

Auditors pay all fees chargeable to students registered for credit except the late-registration fee.

#### WITHDRAWALS AND REFUNDS

Applications for withdrawal must be made in person or in writing to the Dean of the School or the Director of the Division in which the student is registered. Notification to an instructor is not an acceptable notice.

In authorized withdrawals and changes in schedules financial adjustments will be made on the principle of the three instalments a semester, as follows:

First semester: Withdrawals dated on or before October 31, cancellation of the second and third instalments; withdrawals dated on or before November 30, cancellation of the third instalment; no refunds or rebates will be allowed on withdrawals dated subsequent to November 30.

Second semester: Withdrawals dated on or before February 28, cancellation of the second and third instalments; withdrawals dated on or before March 31, cancellation of the third instalment; no refunds or rebates will be allowed on withdrawals dated subsequent to March 31.

In no case will any part of an initial instalment of tuition be refunded, and in no case will tuition be reduced or refunded because of nonattendance upon classes.

No permission to withdraw and no certificate of work done will be given a student who has not a clear financial record.

#### SCHOLARSHIPS, PRIZES, LOAN FUNDS

Scholarships are administered by the University Committee on Student Loans and Scholarships. Applications should be made to the Registrar of the University.

Through the generosity of friends of the University a number of loan funds are available to students in the Law School. Among them is the Henry Strong-William A. Maury Scholarship Loan Fund, established by the Henry Strong Educational Foundation in memory of Henry Strong and William A. Maury. Application for loans should be made to the Registrar of the University.

The following prizes are awarded annually in the Law School:

*Ellsworth Prize.*—The Ellsworth Prize of \$25, offered by Mr. Fritz v. Briesen, is awarded to the student doing the best work in the subject of Patent Law Practice. It was awarded in 1931-32 to Leland Leon Chapman.

*Samuel Herrick Prize.*—A prize of \$25, founded by Samuel Herrick, Esq., is awarded annually to that member of the graduating class in the Law School (excepting the winner of the John Bell Larner gold medal), who has attained the highest average grade in the work of the third year. It was awarded in 1931-32 to Louise Frances Feinstein.

*John Bell Larner Prize.*—This prize, established by the bequest of John Bell Larner, consists of a gold medal which is awarded annually to that member of the graduating class in the Law School who attains the highest average grade in the entire course for the degree of Bachelor of Laws. It was awarded in 1931-32 to Jesse Rink Wallace.

*John Ordronaux Prizes.*—These prizes were established in 1909 by the bequest of John Ordronaux. The amount of \$50 is awarded annually to the student in the Law School who has attained the highest average grade in the first-year, full-time, regular course; and \$50 to the student who has attained the highest average grade in the second-year, full-time, regular course. The former was awarded in 1931-32 to Stanton Canfield Peele, jr., and the latter to Henry Dallas Linscott.

#### ORDER OF THE COIF

The Order of the Coif is a national honor society with chapters in thirty-two law schools, the purpose of which is "to foster a spirit of careful study and to mark in a fitting manner those who have attained a high grade of scholarship." The George Washington University Chapter was established in 1926. Students are elected each year from the highest ranking 10 per cent of the graduating class of the Law School.

#### GENERAL REGULATIONS

*Students in the Law School are subject to, and are expected to familiarize themselves with, the general University regulations stated on pages 48, 50 and 69-74 of the University catalogue.*

#### AMOUNT OF WORK

A student who takes a majority of his courses in the full-time section, from 9.10 a.m. to 1 p.m., may, with the permission of the Dean, take



work not exceeding fifteen hours a week. For such students the minimum period of attendance is three academic years.

A student who takes a majority of his courses in the afternoon sections or in classes held before 9 a.m., may not register for more than ten hours a week. For such students the minimum period of attendance is four academic years.

The amount of work carried by any student may be restricted when, in the judgment of the Dean, the best interests of the student require it.

#### ATTENDANCE

No student will be allowed credit in any subject unless he has been regularly registered and in regular attendance and has done all the work required in the course in that subject.

Absences of 10 per cent or less of the class hours in any given subject do not affect the student's attendance credit. Absences in excess of 25 per cent will make him ineligible for examination or credit in that subject. Absences exceeding 10 but not exceeding 25 per cent in each subject will be totaled from all subjects taken during the academic year, and for each fifteen hours of excess absences thus shown, the year's credit obtained by the student shall be reduced by one semester-hour. Lateness in registration shall count as absence. Credit for attendance shall begin with the date of approval of registration by the Comptroller's Office.

#### EFFECT OF NONRESIDENCE

Candidates absent from residence for more than two successive semesters may reenter and continue their work only under the rules and regulations in force at the time of their return. The Dean's Council, however, may permit such students to continue their work under the entrance requirements in force at the time they were admitted to the School.

#### GRADES

The grade of a student in each subject is indicated by the letters *P* (55), pass, or *F*, (below 55), failed. The meaning of these grades is as follows:

*P*, pass, means that the work has been successfully completed and full credit given for the subject.

*F*, failed, means that the work in the subject has been a failure and that no credit will be given. To obtain credit the student must repeat the subject; but a student who, in the work of the year, has received a grade of *F* in one subject only and obtained a general average of *C*, may take the next regular examination in that subject, and if on such reexamination he attains the grade of *C* or better, he will be given a grade of *D* (60) in the subjects.



At the end of each academic year each student is given an average numerical grade for his work for the year. These numerical grades rank as follows: *A* (85-100), excellent; *B* (75-84), very good; *C* (65-74), good; *D* (60-64), poor; *U* (below 60), unsatisfactory.

#### EXAMINATIONS

Written examinations are held at the close of the first semester in subjects which are then completed and at the close of the second semester in all other subjects. All students are required to take the regular examinations in the subjects pursued, unless excused by the Dean. A student who, with the consent of the Dean, does not take the final examination in a subject with the class in which he is enrolled, may take the next regular examination given in the subject.

No student shall be given an examination in, nor permitted to receive credit in, less than an entire subject. In any case where a student is permitted to register for one semester only of a year subject, he shall not take the examination in that subject until the other semester has been completed. If no regular examination in that subject is scheduled at the time the other semester is completed, then the student shall not be given a special examination but shall be required to take the next regular examination.

No special examinations will be given; except, that upon written application to the Dean's Council, showing sufficient cause, a candidate for a degree at a convocation before the next regular examination, if he would be entitled to take a postponed examination, may, in the discretion of the Dean's Council, be given a special examination not less than sixty days after the one which he failed to take.

#### CLASSIFICATION OF STUDENTS

Students are divided into classes on the completion of semester-hours of credit as follows: first year, to twenty-seven; second year, twenty-eight to fifty-five; third year, fifty-six or more.

#### ELIGIBILITY FOR STUDENT ACTIVITIES

In order to be eligible to represent the University in any intercollegiate nonathletic activity a student must be a regularly enrolled candidate for a degree, registered for at least nine hours, and not on probation. In order to participate in other student activities a student must be registered for at least two courses and not on probation.

A detailed statement of the regulations governing participation in intercollegiate athletic contests may be secured from the Secretary of the Faculties.

Before a student may participate in any activity he must be certified as eligible by the Registrar of the University. The Faculty adviser in

charge of each activity shall submit to the Registrar a list of all student candidates for participation in that activity. For the purpose of determining eligibility under these rules, a student's quality-point index will be calculated at the end of each semester, irrespective of the amount of work carried.

## STUDENT LIFE

### LIVING ACCOMMODATIONS

The George Washington University is an urban institution. It maintains no dormitories. For the benefit of nonresident students registers of rooms which have been inspected and approved are kept in the office of the Director of Women's Personnel Guidance, where inquiries in respect to housing facilities should be addressed. Satisfactory accommodations can be found near the University.

Single rooms usually range in price from \$15 to \$25 a month, and double from \$10 to \$20 a month a person. Rooms with board, including breakfast and dinner, cost from \$35 to \$45 a month a person.

It is advisable for students to reach the University two or three days before the opening of the term in order that they may become established in satisfactory living quarters before class work begins. Renting by mail is unsatisfactory. Lists of houses will be mailed on request, but students are advised to make personal inspection before engaging rooms.

### WOMEN STUDENTS

All women students under twenty-three years of age must have their residences approved by the Director of Women's Personnel Guidance, unless they are living with family or relatives. Registration is not complete until such approval is given.

### APPOINTMENT BUREAU

The Appointment Bureau is maintained to assist graduates and students in finding positions for which their college work has prepared them, and to cooperate with employers who wish to fill vacancies. Enrolment is open to graduates and students without charge for placement.

For further information address the Placement Secretary, The George Washington University, Washington, D. C.

### STUDENT EMPLOYMENT

An employment service is operated to assist self-supporting students in finding employment. The University offers every possible assistance, but success in self-support depends upon the student himself.

Prospective students who expect to earn any part of their expenses and who do not have definite appointment to positions before coming to Wash-

ington, should have the means of support for at least one semester. A minimum budget of \$100 a month is recommended.

Many out-of-town students secure positions in the Departments of the Government in Washington by taking the United States Civil Service examinations in their home States. The hours of employment permit them to pursue a college course in the late afternoon.

#### HEALTH ADMINISTRATION

The payment of the University fee entitles students to health services hereinafter described. Through reports from the students and University officials, the University attempts to keep informed as to all cases of illness among its students.

Medical privileges include: (1) the physical examination of all students entering from secondary schools; (2) three visits by the University physician or surgeon, office or home, in any one illness, exclusive of a specialist, surgical operation, laboratory, or X-ray examination; (3) hospitalization, including board, medicine, and nursing in the University Hospital for not more than two weeks during a school term—the necessity to be determined by the Director of Health Administration. The duration of hospitalization period (maximum, two weeks) is also to be determined by the Director of Health Administration.

This medical benefit does not include treatment for illness or disability incurred previous to the University term or prior to payment of the University registration fee.

Students are allowed, if they so desire, to engage physicians and nurses of their own choice, but when they do so they will be responsible for the fees charged.

Rules: (1) The Director of Health Administration is empowered to limit or deny the medical benefits where, in his discretion, a student has, by his misconduct or breach of the rules of the University, made himself ineligible; (2) the Director of Health Administration has authority to determine the necessity and length of hospitalization; (3) students who have severed their connection with the University are ineligible for medical benefits; (4) students intending to train for athletic teams are required to pass a careful examination at the beginning of each semester; (5) the above regulations apply during the Summer Sessions of the University.

#### COURSES OF INSTRUCTION

The courses of instruction in Law are listed on pages 23-27.

#### THE DEGREES

Upon the satisfactory completion of the requirements of the Law School, the degree of Bachelor of Laws or Master of Laws is conferred.



## REQUIREMENTS FOR THE BACHELOR OF LAWS DEGREE

To be recommended for a degree a student must satisfy the admission, residence, and scholarship requirements and must complete the prescribed number of credits and required subjects. *Particular attention is called to the statement of graduation requirements on pages 71-73 of the University catalogue.*

### RESIDENCE

The residence requirement for this degree is three academic years for full-time students or four academic years for students with limited schedules. A year's attendance in the late afternoon classes for students with limited schedules is counted as residence for three fourths of a year. In the case of students admitted with advanced standing, at least one full year of this residence requirement must be spent in The George Washington University.

A student who at the end of any regular period of residence—the first semester, the second semester, or the summer session—has completed subjects which equal in semester-hours the total number of semester-hours required for the degree for which he is a candidate, but has failed to complete the full residence requirements for that degree, must be in residence during additional periods sufficient to satisfy completely the residence requirements. In all such cases the student must be in residence during the entire period and must satisfy the attendance requirements of, and pass the examination in, at least one subject.

### CURRICULUM REQUIREMENTS

The curriculum leading to the degree of Bachelor of Laws is set forth under the first, second, and third years of the "Plan of Study", below. The successful completion of the courses there listed is required for the degree. The credit requirement is a minimum of eighty semester-hours.

#### COMBINED ARTS AND LAW CURRICULUM

The University will confer the degree of Bachelor of Arts upon the completion of three years of college work and the first year in the Law School. In order to be certified to the authorities of Columbian College as having satisfactorily completed one year of law work, the student must have completed twenty-eight semester-hours in the Law School, with an average of 65 per cent or better (see the Columbian College announcement, pages 100-1 of the University catalogue). The Bachelor of Laws degree will be conferred upon the completion of the remainder of the work for that degree.

#### COMBINED ENGINEERING AND LAW CURRICULUM

The University will confer the degree of Bachelor of Science in Engineering upon the completion of the first three years of the curriculum



for that degree in the School of Engineering and the first year in the Law School (see the School of Engineering announcement, page 151 of the University catalogue). The Bachelor of Laws degree will be conferred upon the completion of the remainder of the work for that degree.

#### SCHOLARSHIP

The eighty semester-hours of work required for the degree must be completed with an average grade of at least *C*.

Unless a student in each academic year receives a grade above *F* in at least three fourths of the semester-hours for which he is registered and obtains a numerical average grade of not less than 60, he will be denied registration in the future; but upon written application to the Committee on Reinstatement, showing sufficient cause, and after a personal hearing, if he so desires, he may be reinstated on such conditions as the committee may impose.

#### HONORS

The degree of Bachelor of Laws "with distinction" will be awarded students who obtain an average grade of *A*.

#### REQUIREMENTS FOR THE MASTER OF LAWS DEGREE

Candidates for the degree of Master of Laws must complete twenty semester-hours of work in subjects not counted toward the degree of Bachelor of Laws.

This degree will not be conferred until one academic year after the candidate receives the degree of Bachelor of Laws. All requirements must be completed in not exceeding two years after registration for the work for the degree.

#### SCHOLARSHIP

Courses taken for the Master's degree must be completed with an average grade of not less than *B*.

#### REQUIRED SUBJECTS

Trusts, Conflict of Laws, and Constitutional Law must be included in the course for the degree of Master of Laws if not previously taken. No first-year subject and no second-year required subject may be counted toward this degree.

#### PLAN OF STUDY

The subject matter is so related in the curriculum as to give an understanding of the relations between subjects. For this reason the subjects must be taken in the order provided for in the plan of instruction.

A student who has not completed all the first-year subjects may be permitted to register for a limited number of second-year subjects for

which he may be qualified. In no case, however, will this be permitted unless the student's program for the year includes the uncompleted, required, first-year subjects.

In no case will a student who is a candidate for a degree in Law be permitted to take any subjects listed as third-year subjects unless he has completed all the required subjects of the first year and at least three required subjects of the second year.

Qualified third-year students may elect a limited number of graduate subjects and count them toward the degree of Bachelor of Laws.

Candidates for the degree of Master of Laws may elect and count toward that degree third-year subjects not already counted toward the degree of Bachelor of Laws.

First Year	Sem. hrs.	Third Year	Sem hrs
Civil Procedure.....	4	Constitutional Law.....	4
Contracts.....	7	Corporations.....	4
Criminal Law and Procedure.....	3	Moot Court or Patent Moot Court.....	4
Personal Property.....	4	Electives*.....	12
Real Property I.....	4		
Torts.....	6	Total.....	24
Total.....	28		
		Master of Laws	
Second Year		Administrative Law.....	2
Bills and Notes.....	4	History of Law.....	4
Equity II.....	4	International Law.....	4
Evidence.....	4	Interstate Commerce Law.....	2
Real Property II.....	4	Taxation.....	4
Electives*.....	12	Trade Regulation.....	4
Total.....	28	Total.....	20

#### HOURS OF INSTRUCTION

The regular course for full-time students is given from 9.10 a.m. to 1 p.m. Employed students may take the regular course in the classes held at 5.10 and 6.10 p.m.

For catalogues, application blanks, and further information, address the Dean of the Law School, The George Washington University, Stockton Hall, Washington, D. C.

\* Courses from which electives may be selected are as follows: for the second year, Agency (4), Domestic Relations (2), Insurance (2), Quasi-contracts (2), Sales (4); for the third year, Admiralty (2), Bankruptcy (2), Conflict of Laws (4), Equity III (2), Federal Procedure (2), Labor Law (2), Mortgages (2), Municipal Corporations (2), Organization of Corporations (1), Partnership (2), Patent Law (4), Public Utilities (2), Real Property III (2), Suretyship (2), Trusts (4). Figures in parentheses indicate the number of semester-hours of credit.



## COURSES OF INSTRUCTION IN LAW

The courses of instruction listed below are subject to some slight change. The University reserves the right to withdraw any course announced.

The number which precedes the name of a course indicates the semester in which that course is offered. An odd number indicates that the course is offered in the first semester; an even number, that it is offered in the second semester; and a double number (e.g., 157-58), that it begins in the first semester and continues in the second.

First-year courses are numbered from 101 to 150; second-year courses, from 151 to 200; third-year courses, from 201 to 250; and graduate courses, from 251 to 300.

The number of semester-hours of credit given for the satisfactory completion of a course is indicated in parentheses after the name of the course. Thus, a year course giving two hours of credit each semester is marked (2 2), and a semester course giving two hours of credit is marked (2).

### FIRST-YEAR SUBJECTS

- 101-2 *Civil Procedure* (2-2) Clephane, Hunter  
Section A (Sunderland's Cases, 2d ed.; Keigwin's Cases on Equity Pleading), first semester, Mon. and Thurs., 12.10 p.m.; second semester, Mon. and Fri., 12.10 p.m. Section B (Shipman on Common Law Pleading; Clephane on Equity Pleading), Tues., 5.10 and 6.10 p.m.
- 111-12 *Contracts* (4-3) Spaulding, Moll, McIntire  
Williston's Cases on Contracts, 3d ed. Section A, first semester, Mon., 10.10 a.m., and Tues., Wed., and Fri., 9.10 a.m.; second semester, Mon., Thurs., and Fri., 10.10 a.m. Section B, first semester, Mon. and Thurs., 5.10 and 6.10 p.m.; second semester, Mon., 5.10 p.m., and Thurs., 5.10 and 6.10 p.m. Special, second semester, Tues. and Wed., 5.10 and 6.10 p.m.
- 124 *Criminal Law and Procedure* (3) Hunter  
Case book to be announced. Section A, Mon., Wed., and Fri., 9.10 a.m. Section B, Mon., 6.10 p.m., and Fri., 5.10 and 6.10 p.m.
- 133-34 *Personal Property* (2-2) Fryer, Benson  
Bigelow's Cases on Personal Property, 2d ed., 1931; materials on the study of law; remedies and the term "property"; Fryer's Readings on Personal Property. Section A, first semester, Tues., 11.10 a.m., and Fri., 10.10 a.m.; second semester, Tues. and Thurs., 9.10 a.m. Section B, Tues., 5.10 and 6.10 p.m.



- 225-26 *Moot Court* (2-2) Clephane, Cox, Hall, Hunter  
Prerequisite: Law 101-2 and 177-78. Section A, Sat., 9.10 to 11 a.m. Section B, Wed., 5.10 and 6.10 p.m.
- 228 *Mortgages* (2) Benson  
Case book to be announced. Fri., 5.10 and 6.10 p.m.
- 230 *Municipal Corporations* (2) McIntire  
Case book to be announced. Mon., 5.10 and 6.10 p.m.
- 231 *Organization of Corporations* (1) Clephane  
Clephane on Organization and Management of Corporations. Mon., 5.10 p.m.
- 233 *Partnership* (2) Davison  
Crane and McGruder's Cases, shorter selection, 1930. Section A, Wed., 10.10 a.m., and Fri., 11.10 a.m. Section B, Thurs., 5.10 and 6.10 p.m.
- 235-36 *Patent Moot Court* (2-2) Hudson  
This course may be elected instead of Law 225-26 to satisfy the Moot Court requirement. Both subjects may not be counted toward a degree. Wed., 5.10 and 6.10 p.m.
- 237-38 *Patent Law* (2-2) Sutton  
Substantive patent law and patent-office practice. Mon., 5.10 and 6.10 p.m.
- 240 *Real Property III* (2) Moll  
Wed., 5.10 and 6.10 p.m.
- 242 *Suretyship* (2) Fryer  
Campbell's Cases. Fri., 5.10 and 6.10 p.m. (Not offered in 1933-34.)
- 245-46 *Trusts* (2-2) Moll  
Scott's Cases on Trusts, 2d ed. Section A, first semester, Tues. and Thurs., 11.10 a.m.; second semester, Tues. and Wed., 11.10 a.m. Section B, Thurs., 5.10 and 6.10 p.m.

## GRADUATE SUBJECTS

- 252 *Administrative Law* (2) Davison  
Frankfurter and Davison's Cases on Administrative Law. Section A, Wed., 10.10 a.m., and Thurs., 11.10 a.m. Section B, Thurs., 5.10 and 6.10 p.m.
- 253 *Admiralty* (2) Alden  
Sayre's Cases on Admiralty. Wed., 5.10 and 6.10 p.m.
- 255-56 *History of Law* (2-2) Benson  
Plucknett, *A Concise History of the Common Law*; Benson, *History of English Law Notebook*. Mon., 5.10 and 6.10 p.m.

- 257-58 *International Law* (2-2) Murdock  
Hudson's Cases on International Law. Thurs., 5.10 and 6.10  
p.m.
- 260 *Interstate Commerce Law* (2) Davison  
Sharfman, *Interstate Commerce Commission*, vol. 1, and assigned  
cases. Mon, 5.10 and 6.10 p.m.
- 261 *Labor Law* (2) Spaulding  
(Not offered in 1933-34.)
- 263 *Public Utilities* (2) Davison  
Welch, et al., Cases on Public-Utility Regulation. Mon.,  
5.10 and 6.10 p.m.
- 265-66 *Taxation* (2-2) Collier  
Magill and Maguire's Cases. Fri., 5.10 and 6.10 p.m.
- 269-70 *Trade Regulation* (2-2) Oppenheim  
Case book to be announced. Wed., 5.10 and 6.10 p.m.



# DEGREES CONFERRED

1932-33

## BACHELOR OF LAWS

JUNE 15, 1932

Amdur, Leon H. A.B. 1920, M.E. 1922, Columbia University	N.Y.	Dudley, Donald Goodnow A.B. 1926, Swarthmore College	D.C.
Ametman, George, Monitor A.B. 1929, Dickinson College	Pa.	Dulles, John Foster (as of June 1912)	
Baer, Louis Henry Ch.E. 1927, Rensselaer Polytechnic Institute	N.Y.	Dutton, Lillian Bertha A.B. 1926, The George Washington University	D.C.
Bassett, John Earl	D.C.	Earnest, James Marvin B.S. 1927, Alabama Polytechnic Institute	Ala.
Bays, William Webb A.B. 1904, Washington and Lee University	D.C.	Edwards, William Griffith, jr. B.S. in E.E. 1927, University of Colorado	Colo.
Beardsley, Charles Harrison B.S. in Eng. 1926, University of Michigan	Mich.	A.B. 1930, University of Colorado	
Beasley, Albert Ferrell	Ala.	Epstein, Reuben B.S. 1926, College of the City of New York	N.Y.
Becker, William, Senator A.B. 1923, The George Washington University	Ohio	Feinstein, Louise Frances A.B. 1930, The George Washington University	D.C.
Beeler, Donald Casper A.B. 1928, University of Oregon	Oreg.	Finch, Eleanor Harrison A.B. 1920, Trinity College	Ma.
Berry, Charles Oscar Business, Harold Wash, Institution Graduate 1928, U. S. Naval Academy	D.C.	Fitzsimmons, Richard Raymond B.S. 1924, Carnegie Institute of Technology	Pa.
Bell, Theodore Roosevelt B.S. 1928, University of Utah	Calif.	Friedman, Melvin Hilgard B.S. in F.F. 1928, The George Washington University	D.C.
Benth, August Marshall	Utah	Gash, Oliver A.B. 1928, Princeton University	D.C.
Boyd, Helen Marie A.B. 1927, University of Wisconsin	Okla.	Grubb, Katherine Mary A.B. 1928, Smith College	Ala.
Boyer, James Barnes B.S. in E.E. 1928, Pennsylvania State College	D.C.	Guller, James Gordon Hatch, Douglas L. (With distinction)	Ill. Nev.
Brown, Lucy Williams Brown, Mary Agnes A.B. 1924, The George Washington University	D.C.	Heimann, Catherine Ehrmantraut Hogues, William Sutherland	D.C. Idaho
Buchler, Milton B.S. in M.E. 1926, University of Michigan	N.H.	Holcher, David Kay Houghton, Joseph York B.S. 1926, Massachusetts Institute of Technology	Utah Md.
Cady, John Parmelee Graduate 1922, U. S. Naval Academy	D.C.	Hunt, Margaret Clarke A.B. 1926, The George Washington University	D.C.
Caplan, Max A.B. 1930, The George Washington University	D.C.	Jackson, Charles Horatio, jr. A.B. 1931, The George Washington University	Tex.
Carpenter, Samuel Raymond Colladay, David Clement A.B. 1929, Princeton University	Utah	Johnson, Ervin George B.S. 1927, University of California	Calif.
Conger, Bernard Wallace A.B. 1930, The George Washington University	D.C.	Johnson, Robert Lee Graduate 1922, U. S. Naval Academy	Ga.
Conger, George William Cookson, Jessamine A.B. 1928, Bucknell University	La. D.C.	Lacey, Trammell Colborn A.B. 1928, University of Texas	Tex.
Cram, Harry Watson B.S. 1924, Princeton University	Pa.	Langshaw, Gertrude Layton, Philip Raymond A.B. 1931, The George Washington University	Mich. Colo.
Cunningham, John, II deSouza, Daniel Arthur	Iowa	LeGates, Peter Thomson B.S. in E.E. 1928, University of Delaware	Del.
Dubin, Bernard	N.J.		



Max G.H. Winfield Scott, jr. (With distinction) B.S. 1928, University of Virginia	Md.	Scoredoe, Chris Gary A.B. 1925, The George Washington University	D.C.
Mattsson, Carvel (With distinction) B.S. 1928, University of Utah	Utah	Shaw, Richard Waring Shelton, Charles Latimer B.S. 1928, University of Maryland	Kans. Md.
McKay, David Lawrence A.B. 1926, University of Utah	Utah	Simmons, Marcellus Culmer A.B. 1928, The George Washington University	Utah
Miller, James Harold A.B. 1929, Juniata College	Pa.	Sitz, Walter Hoersch Graduate 1916, U. S. Naval Academy M.S. 1922, Massachusetts Institute of Technology	Iowa
Miller, Robert Saunders A.B. 1928, University of Michigan	Ohio	Smith, Frank DeLarme, jr. B.S. in M.E. 1925, Harvard University	D.C.
Morris, John Carless E.E. 1926, Cornell University	N.Y.	Smith, Jesse Robinson Smith, Melvin Clyde A.B. 1927, West Virginia University	Utah Va.
Morris, Rayson Pasco B.S. in E.E. 1928, University of Idaho	Idaho	Stearns, Robert Maynard Steenrod, Virginia Ruth Sterritt, John Calhoun M.E. 1928, Cornell University	Iowa Ohio Pa.
Morse, Excellenza Leah A.B. 1920, University of Vermont B.S. 1922, M.S. 1921, Massachusetts Institute of Technology	Vt.	Taylor, Alfred Lindsay E.E. 1923, Rensselaer Polytechnic Institute	N.Y.
Murphy, Harold Warner Nevius, Richard David A.B. 1930, The George Washington University	Ind. D.C.	Taylor, William Morris Terry, George McGrew Tove, F. Gerald B.S. in E.E. 1927, Clarkson College of Technology	Calif. Ohio Va.
Norris, Henry Gladden Nutter, Carl Joseph A.B. 1911, West Virginia University	La. W.Va.	Twining, Merrill Barber Graduate 1921, U. S. Naval Academy	N.Y. Wis.
Orbison, Robert Henry A.B. 1930, Butler University	Ind.	Van Dyke, Lawrence Adelbert, jr. Vernon, Clinton DeWitt von Dachenhausen, George Alexander A.B. 1929, The George Washington University	Utah Utah D.C.
Parker, Albert Marcus B.S. in M.E. 1928, University of Maine	N.J.	Wallace, Jesse Rink (With distinction) Graduate 1922, U. S. Naval Academy	Ill.
Parsons, Verna Lenore A.B. 1931, The George Washington University	D.C.	Wallenstein, Sidney B.S. in Ch.E. 1928, Case School of Applied Science	Ohio
Parsons, William Herbert Patterson, Kirby Williams A.B. 1928, Drury College	D.C. Mo.	Weeks, Charles Everett Westby, George Newton B.S. 1927, University of Washington	S.Dak. Wash.
Pecorato, Leone A.B. 1928, A.M. 1929, Columbia University	N.Y.	Wight, Donald Miller M.E. 1923, Lehigh University	D.C.
Pellecchia, Pellegrina James, jr. Rees, William Chevers Rinehart, Theodore Robinson, William Junius	N.J. Idaho Okla. D.C.	Wilkinson, Thomas Nesbitt, jr. Wilkins, Gordon Armatrong A.B. 1926, University of Richmond	N.Mex. Va.
Rosenberry, Wellington, jr. A.B. 1920, Pennsylvania State College	Pa.	Yaffer, Simon E.E. 1926, Rensselaer Polytechnic Institute	N.Y.
Rosenburg, Everett Reynolds E.E. 1924, Rensselaer Polytechnic Institute	N.Y.	Young, Truman Richards Younger, Donald	Utah Calif.
Rosoff, Leo Rutter, Janet Goodwin A.B. 1930, Cornell University	Mass. D.C.		
Schrader, Milward Cecil Schulz, Hugo O. M.E. 1927, Stevens Institute of Technology	Kans. N.J.		

## OCTOBER 13, 1932

Armstrong, Robert Harmon A.B. 1930, West Virginia University	W.Va.	Jackson, John Wingfield (With distinction) B.S. in Econ. 1928, University of Pennsylvania	D.C.
Blair, John Alexander M.E. 1928, Cornell University	Okla.	Lindquist, Willis John Logsdon, DeEarle Monroe Kampe, Albert Henry B.S. in C.E. 1924, The George Washington University	Minn. Ind. D.C.
Cluster, Loren Lee Coffin, Seth Charles B.S. 1926, Indiana University	Ill. Ind.	Mann, James DeValae A.B. 1928, Birmingham Southern College	Ala. N.Y.
Elvove, Kady Fowler, Robert Edward E.E. 1926, Cornell University	Ky. N.Y.		
Howe, Alden Warne A.B. 1928, University of Maryland	Md.		

# The Law School

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McElhenny, Grace Cornelia A.B. 1918, Smith College	D.C.	Shetwood, William Earl B.S. in M.F. 1927, University of Kentucky	Ky.
McGinn, Burton Adon A.B. 1929, University of Maryland	D.C.	Simons, Mason McCorkle	N.C.
Miller, Florian George B.S. in M.E. 1922, University of Michigan	Pa.	Tremann, Rawleigh Lewis A.B. 1921, Lehigh College	N.C.
Olson, Frank Montague	Utah	Wise, William Harvey A.M. 1926, University of North Carolina	D.C.
Perry, Albert Walter	Ill.	Wise, William Harvey A.B. 1930, The George Washington University	D.C.
Patterson, George Daniel R.B.A. 1928, Emory University	Ala.		
Seaton, Warren A.B. 1926, State University of Iowa A.M. 1927, Harvard University	Iowa		

## FEBRUARY 22, 1933

Adair, Edwin Ross A.B. 1928, Hillsdale College	Ind.	Jackson, Arthur Rulon	Utah
Barnes, Stuart Knowlton A.B. 1926, University of Utah	Utah	Langford, George Frank M.E. 1927, Stevens Institute of Technology	N.Y.
Black, Henry Franklin B.S. 1928, Norwich University	Vt.	McClelland, Casper Shepard	Pa.
Brooks, Albert Edward, Jr. A.B. 1926, Duke University	Iex.	Meindl, Gerald James B.S. 1929, University of Oregon	Okla.
Cannon, Edward Lee A.B. 1926, Duke University	N.C.	Rohrer, Carl Peffer A.B. 1931, The George Washington University	Va.
Coatsworth, John Wallace A.B. 1928, Dakota Wesleyan University	S. Dak.	Seegmiller, Keith Lorraine B.S. 1932, Brigham Young University	Utah
Cromwell, Fred Paskell B.S. 1932, University of Illinois	Ill.	Shapiro, Arthur B.Eng. 1921, Johns Hopkins University	D.C.
Freedman, Cecil Lewis A.B. 1927, E.E. 1928, Stanford University	D.C.	Trilety, O. Edward A.B. 1928, The George Washington University	Neb.
Gillespie, Frank Smith	Ill.	Van Meter, Kennv Chambers, Jr. Wainwright, Mildred Rowena	W. Va.
Helmke, Helen Margaret	Calif.		Ill.
L'Anson, Nannie Armistead A.B. 1930, The George Washington University	D.C.		

## MASTER OF LAWS

### OCTOBER 13, 1932

Pettie, Claude Westcott A.B. 1911, Ohio State University LL.B. 1916, Western Reserve University	Ohio
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### FEBRUARY 22, 1933

Bevington, Moses Brownlow, Jr. Graduated 1918, U.S. Naval Academy LL.B. 1926, with distinction, The George Washington University	Tenn.
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# STUDENTS REGISTERED

1932-33

The names of all students registered in the Law School during the academic year 1932-33 are listed below in alphabetical order. Roman numerals indicate the year of the course in which the student is registered.

Students who withdrew at the close of the first semester by graduation are indicated by an asterisk (\*); others who were registered for the first semester only are indicated by a dagger (†); students registered for the second semester only are indicated by a double dagger (‡).

Abbott, Edward Edson (Law II)	Mass.	Ballard, Victor Herbert (Law I)	Ala.
A.B. 1920, Dartmouth College		Ballard, Walter Eugene, jr. (Law III)	Ala.
Abramson, Benjamin (Law I)	N.H.	†Bannerman, Graeme Campbell (Law I)	D.C.
B.S. 1912, University of New Hampshire		B.S. 1921, Hamilton College	
†Abramson, Norman (Law III)	D.C.	Barbee, Carl Joseph (Law III)	Ill.
*Adair, Edwin Ross (Law III)	Ind.	B.S. in M.E. 1920, Purdue University	D.C.
A.B. 1928, Hillsdale College		Barker, Clifford O. (Law II)	Mo.
Atchison, Clyde Bruce, jr. (Law III)	Oreg.	Barlow, Harry Emile (Law I)	Mich.
†Akar, Louis (Law I)	France	Barlow, Homer Joel (Law I)	
Akre, Charles Thomas (Law III)	Iowa	A.B. 1929, Alma College	Utah
A.B. 1911, State University of Iowa		*Barnes, Stuart Knowlton (Law III)	
Albert, Irvin Robert (Law I)	D.C.	A.B. 1929, University of Utah	D.C.
Alleman, Hubert Charles (Law I)	La.	‡Bassett, Irving Albertson (Law I)	
A.B. 1920, West Virginia University		Ph.D. 1911, The George Washington University	D.C.
Allen, Edward Walter, jr. (Law III)	D.C.	Bateman, Roy Danby (Law II)	D.C.
Allen, Grandison Greer (Law II)	Ky.	B.S. in Eng. 1912, The George Washington University	
A.B. 1910, Vanderbilt University		Bates, George Newcomb (Law II)	D.C.
Allison, Andrew Vangrol (Law III)	D.C.	A.B. 1930, Williams College	Ark.
Altus, Charles Chapin (Law II)	N.Y.	Baxter, Russell J. (Law III)	
Alpher, Robert (Law II)	D.C.	A.B. 1930, University of Arkansas	D.C.
B.S. 1930, The George Washington University		Bays, William Webb (Law, LL.M.)	
Alpher, Solomon (Law II)	D.C.	A.B. 1904, Washington and Lee University	
†Alzheimer, Louise (Law I)	Ark.	L.L.B. 1922, The George Washington University	
A.B. 1911, Vanderbilt University		Beach, Arthur Eugene (Law II)	Mo.
A.M. 1912, University of Wisconsin		A.B. 1910, The George Washington University	
Amott, Wesley D. (Law III)	Utah	A.B. 1910, The George Washington University	
B.S. 1928, University of Utah		Beasley, Delmar Otis (Law I)	Miss.
†Anderson, Bowman Cowne (Law II)	Va.	Bein, Joseph David (Law II)	D.C.
Anderson, Park F. (Law III)	Nebr.	B.S. in M.E. 1921, The George Washington University	
Andrews, Don D. (Law II)	Iowa	Bennett, Clarence Henry (Law I)	D.C.
B.S. in I. F. 1928, The George Washington University		A.B. 1929, Western Maryland College	Utah
Aponte, Faustino R. (Law II)	P.R.	Benson, Serge N. (Law III)	
Apter, Morris (Law I)	Conn.	B.S. 1928, Utah State Agricultural College	D.C.
†Arick, Ned William (Law, LL.M.)	Ind.	Berg, Moncote Burke (Law III)	
A.B. 1926, Wabash College		B.S. in M.E. 1927, Princeton University	N.Y.
L.L.B. 1911, The George Washington University		Berlowitz, Walter Maxwell (Law II)	
Arnold, Philip (Law II)	D.C.	M.E. 1920, Stevens Institute of Technology	D.C.
Arps, Harold Fred (Law II)	Ohio	Betts, David Earle (Law I)	
Aston, Clyde Weldon (Law I)	Tex.	A.B. 1912, Norwich University	N.J.
A.B. 1911, Austin College		Biddle, Gordon Cook (Law II)	
Barley, James, jr. (Law II)	Tenn.	B.S. in Eng. 1931, Princeton University	Utah
Baird, Douglas Otis (Law I)	Ala.	Billings, Thomas Elton (Law III)	D.C.
B.S. 1920, Alabama Polytechnic Institute		Buehoff, John Lawrence (Law, Uncl.)	
Baker, Wilma Elizabeth (Law I)	N.Dak.	A.B. 1911, University of Maryland	D.C.
Baldwin, Ralph Vaughn (Law I)	Conn.	‡Bish, Charles E. (Law, Uncl.)	
Graduate 1924, U. S. Naval Academy		A.B. 1925, Western Maryland College	
Hall, Norman Tower (Law III)	Ohio		
B.S. 1928, University of Toledo			
B.F.S. 1929, Georgetown University			



*Black, Henry Franklin (Law III) B.S. 1928, Norwich University	Vt.	Bush, Kavanaugh (Law III) A.B. 1911, University of Arkansas	Ark.
Black, John Roy (Law II)	Idaho	*Byington, Moses Brownlow, Jr. (Law, I, I, M) Graduate 1917, U. S. Naval Academy	D.C.
Black, Edward L. (Law III) B.S. in M.E. 1910, New York University	N.Y.	Lt. B. 1920, The George Washington University	
Blore, Stephen Walter (Law III) B.S. in E.E. 1928, University of Idaho	D.C.	†Byron, David Wilson (Law II) A.B. 1928, Yale University	Md.
Blossom, Robert Vaughn (Law II)	N.Y.	Call, Thelma Frances (Law I) A.B. 1920, Washburn College	Kans.
†Bock, Henry William (Law II)	D.C.	†Callahan, Arthur Alvord, Jr. (Law II) B.S. 1926, St. John's College	Md.
Bodony, Anna Margaret (Law I)	Ill.	Campbell, Charles S. (Law III) B.S. 1928, University of Colorado	W.Va.
†Bouttee, George Bernard (Law I) B.S. 1931, College of Charleston	D.C.	Campbell, James Frank (Law I) A.B. 1928, St. John's College	Md.
Borison, Rosalee (Law I)	D.C.	†Carleton, Harold A. (Law II) *Cannon, Edward Lee (Law III)	Utah
Bowers, Walter A. (Law I) Ph.B. 1920, University of Chicago	Md.	A.B. 1928, Duke University	N.C.
Bowie, Donald McAlister, Jr. (Law III)	Md.	Cannon, I. Querson (Law I) A.B. 1931, University of Utah	Utah
Boyd, Robert Osbourne (Law III) A.B. 1926, Amherst College	Oreg.	Cannon, Walter H. (Law II) A.B. 1926, University of Utah	Utah
Boyd, Samuel (Law II)	D.C.	Carlin, Reed Simon (Law I) †Carroll, Edward Alexander (Law III)	Utah
Bowen, James Barnes (Law, I, I, M) B.S. in E.E. 1928, Pennsylvania State College	Pa.	A.B. 1920, University of Nebraska	Nebr.
†B. B. 1924, The George Washington University		Carlson, LeGrand W. (Law, I, I, M) L.L.B. 1932, University of Utah	Utah
Bradford, Lowell Joseph (Law I)	D.C.	Carmick, Louis G. (Law II) Carroll, J. Arthur Rhodes (Law I)	D.C.
Bradley, Louis Francis, Jr. (Law III) Ph.D. 1928, The George Washington University	D.C.	A.B. 1921, Harvard University	D.C.
†Bragg, John J. (Law III) B.S. 1926, Georgetown University	N.Y.	†Cattell, William Simpson (Law I) A.B. 1928, Harvard University	D.C.
†Braz Iron, Leontil (Law I)	Md.	Caste, George K. (Law I) Cavers, Alfred C. (Law II)	Utah
†Breadley, James Mings (Law I) B.S. in M.E. 1931, The George Washington University	D.C.	†Carrington, James Reelley (Law I) Chapman, Leland Leon (Law III)	Okla.
Brennan, John Calder (Law I) A.B. 1932, The Citadel	S.C.	B.S. 1928, University of Idaho	Idaho
Brown, Paul C. (Law II) A.B. 1931, University of Illinois	Ill.	Charles, Philipp Lambert (Law III) A.B. 1926, Otterbein College	Ohio
Brook, Jacques Leonard (Law III) Brodrick, Kenneth I. (Law I)	N.Y.	Cheatham, Orme Ernest (Law II) B.S. in C.E. 1922, University of Hawaii	Hawaii
Brodrick, Kenneth I. (Law I)	Kans.	Cheseltone, James C. (Law II) Cheenut, Charles C. (Law I)	N.C.
Brounagh, Frank Harrison (Law II) B.S. in E.E. 1931, The George Washington University	D.C.	Chirack, Charles Yardley (Law III) B.S. 1922, Massachusetts Institute of Technology	Okla.
*Brooks, Albert Edward, Jr. (Law III) Brooks, Carolyn (Law I)	Tex.	Christensen, William John (Law II) A.B. 1928, A.M. 1929, University of Utah	Md.
Brooks, Jesse Howard (Law II) A.B. 1920, Oberlin College	D.C.	Church, Joseph H. (Law II) B.S. in C.E. 1928, Kansas State Agricultural College	Colo.
Brower, Edgar Jay (Law II)	Mont.	Churchill, William Pump (Law II) B.S. in Ch.E. 1930, University of Maine	Minn.
Brown, Robert Thomas (Law II) B.F.S. 1927, Georgetown University	Iowa	Clapham, Wentworth Beggs (Law III) B.S. in C.E. 1926, The George Washington University	Me.
Brugman, Lawrence William (Law II) B.S. in M.E. 1930, University of Illinois	Mass.	Clark, Douglas Vernon (Law II) A.B. 1920, Hampton-Sydney College	N.Y.
Bryan, Frank Bruce (Law I) Buckley, Carper W. (Law I)	Ill.	Clark, Hugh Kemp (Law I) B.S. 1931, The George Washington University	Va.
Buckley, Richard Randolph (Law I) Bullion, Lemmy DeWolfe (Law II)	Va.	Clarke, Horner Brookfield (Law I) A.B. 1921, Wellesley College	Va.
Bundy, Lemmy Edwin (Law III) A.B. 1927, Whitman College	D.C.	Clax, Henry Scott, Jr. (Law II) Clement, Anne Gerard (Law II)	Ky.
A.M. 1920, The George Washington University	Wash.	Clinger, Alfred Rodman (Law II) †Cloud, Henry Roe (Law I)	Mass.
Burbank, Virginia Katherine (Law I) A.B. 1931, The George Washington University	Wyo.		Ohio
†Burchinal, Robert Lee (Law I) A.B. 1926, West Virginia University	W.Va.		Kans.
†Burgess, Arthur Rosland (Law I) B.S. 1927, A.M. 1928, Lafayette College	D.C.		
Ph.D. 1922, Columbia University			
Bush, Donald Porter (Law III) Graduate 1920, U.S. Naval Academy			



*Coatsworth, John W. (Law III) A.B. 1928, Dakota Wesleyan University	S.Dak.	Danley, Gordon Walford (Law III) Graduate 1921, U. S. Naval Academy	D.C.
Cobbe, Jerome Francis (Law I)	N.Y.	Davis, Arthur Marshall (Law III)	Aria
Coble, Eugene J. (Law I)	Kans.	Davis, Cresson Orion (Law I)	D.C.
Cockrill, Harry Howard (Law III) B.S. 1911, University of Virginia	Ark.	A.B. 1931, The George Washington University	
Coe, Bryan (Law II) A.B. 1928, The George Washington University	D.C.	Davis, Ransom Kirby (Law III) Graduate 1920, U. S. Naval Academy	Fla.
†Coffelt, George Quinton (Law I) A.B. 1910, Arkansas State Teachers College	Ark.	M.S. 1927, Harvard University	
Coffin, Lewis Charles (Law II) A.B. 1910, Bowdoin College	Me.	Davis, Thomas Joel (Law I)	Ga.
†Cohen, Bernard (Law III)	Va.	DeLand, Allan Stanley (Law I) B.S. 1912, Washington and Lee University	Md.
Cohen, Joseph (Law I)	D.C.	Dell, Julian Peter, jr. (Law II) Ph.B. 1929, Emory University	Ga.
Cohn, Benjamin Emanuel (Law II) B.S. 1918, University of Illinois	Ill.	DeMoll, Theodore Otto (Law I)	D.C.
Colelowah, Oswald Symister (Law I) Graduate 1920, U. S. Naval Academy	Pa.	Dennis, Milton L. (Law II) A.B. 1911, The George Washington University	D.C.
Conkey, John G. (Law I)	D.C.	DeVeau, Joseph Harold (Law I) B.S. 1931, University of Pennsylvania	Md.
Connors, Joseph Alovsius, jr. (Law I)	D.C.	Dibble, Lawrence Donald (Law I) B.S. 1928, Dickinson College	Pa.
Coombs, J. Wendell (Law II) A.B. 1926, University of Utah	Utah	Dickerman, George Lyman (Law III) B.S. 1927, Middlebury College	Conn.
Corwin, Harold Benn (Law II)	Mich.	Dickson, Elizabeth Loree (Law II)	Md.
Cosdon, Louis (Law II) A.B. 1912, The George Washington University	D.C.	Dietz, John Edward (Law II) A.B. 1911, The George Washington University	D.C.
†Coulston, Clemenev King (Law III) Courtnev, William Hasell (Law III) A.B. 1927, Vanderbilt University	D.C. La.	Dodd, Halbert William (Law II) B.S. 1930, Northwestern University	Ill.
A.M. 1928, Stanford University		Dodds, Edward Shaddick (Law I)	D.C.
†Cowgill, Harold Guy (Law I)	Ill.	Duesting, Carroll Johnson (Law II)	Tex.
Cowley, Charles Glvnd (Law III) B.S. 1928, Utah State Agricultural College	Utah	Dondero, Joseph George (Law I)	D.C.
Cox, Robert Alexander (Law I) A.B. 1911, University of Tennessee	Tenn.	Dotson, Charles William (Law III) A.B. 1931, University of Illinois	Ill.
Cragun, John Wiley (Law II) A.B. 1912, The George Washington University	Utah	Downie, Blake (Law II) A.B. 1931, Arkansas College	Ark.
Crane, Willed Steven (Law III) B.S. in C.E. 1913, Carnegie Institute of Technology	Ill.	Drowns, Allen Crawford (Law III) Drummond, Folsom Ewart (Law III) B.S. in Ch.E. 1924, Ohio State University	Va. D.C.
Creveke, Geoffrev, jr. (Law II) A.B. 1912, The George Washington University	D.C.	†Drury, George Ignatius (Law I) Duckworth, Raymond Francis (Law I)	Ky. D.C.
*Cromwell, Frederick Paskell (Law III) B.S. 1910, University of Illinois	Ill.	Dumas, William Lawrence, jr. (Law, LL.M.) A.B. 1920, Davidson College	Ala.
Crone, Linden Egar (Law III) B.S. 1910, University of Utah	Utah	LL.B. 1932, Harvard University	
Crossetto, Venz Mary (Law II) Cross, John Walker (Law, LL.M.) B.S. 1924, Kansas State Teachers College	Pa. D.C.	†Duncan, Willis Singleton (Law I) A.B. 1931, Westminster College	Mo.
LL.B. 1910, The George Washington University		Durham, Richard Claiborne (Law I)	Va.
†Crouter, Earl Clinton (Law, LL.M.) A.B. 1929, LL.B. 1910, The George Washington University	Wyo.	Dye, Elden Hobson (Law III) Dyer, William W., jr. (Law II)	Utah D.C.
Cutleback, Nelson Charles (Law II) E.E. 1926, Rensselaer Polytechnic Institute	N.Y.	Eager, Thomas Hayward (Law III) Earle, Julius Richard (Law I) Earle, Robert Lindsay (Law I) A.B. 1910, The George Washington University	Wash. D.C. Wis.
†Culver, John Griggs (Law II) Curry, John Edward (Law I) Graduate 1920, U. S. Naval Academy	Md. Md.	A.B. 1910, The George Washington University	D.C.
†Cuthbertson, Stuart (Law I) A.B. 1926, University of Illinois	Ill.	Edwards, Lincoln Parker (Law I) †Edwards, Ivan Reo (Law II) B.S. in M.E. 1920, University of Texas	Mass. Tex.
A.M. 1928, The George Washington University		†Edwards, Rowland (Law III) Ph.B. 1931, University of Chicago	Kans.
Cutting, Charles Ambrose (Law II) B.S. 1910, University of Maine	Me.	Efner, Laurence V. (Law II) B.S. in M.E. 1928, Armour Institute of Technology	Ill.
		Eichler, Bessie Rossmiller (Law II) B.S. 1927, Beloit College	Wis.

Fidridge, John Dupree, jr. (Law III) A.B. 1920, University of Arkansas	Ark.	Free, Lloyd Arthur (Law II) B.S. 1910, Princeton University	D.C.
Flinn, Arthur Carpenter (Law II) A.B. 1928, St. John's College	Md.	*Freedman, Cecil Louis (Law III) A.B. 1927, E.E. 1927, Stanford University	D.C.
Elliott, William E. (Law II) B.S. 1930, Georgia School of Technology	Ga.	Friedenson, Julius (Law I) Ph.B. 1930, Yale University	Conn.
Ellis, William Leigh (Law III) A.B. 1929, Hillsdale College	Mich.	Friedman, Maurice (Law II) A.B. 1929, The George Washington University	Conn.
Ellison, Enoch Edward (Law II)	W.Va.	Fulbright, James William (Law II) A.B. 1925, University of Arkansas A.M. 1931, Oxford University	Ark.
Elberry, Ernest L. (Law II)	N.Dak.		
Enyart, Byron K. (Law III) A.B. 1932, The George Washington University	Va.		
Epaminonda, John G. (Law II)	N.J.	Garvey, James Allen (Law I)	Va.
Ericksen, Mary Elizabeth (Law II)	Wash.	Gates, Robert M. (Law III)	Iowa
Etienne, Alexander Jeremiah (Law II) E.E. 1925, Rensselaer Polytechnic Institute	N.Y.	Garley, Howard Prescott, jr. (Law II)	Md.
Fahs, Muriel June (Law I) B.S. 1932, College of Charleston	Va.	Gaylord, Thomas Adley (Law III) Graduate 1919, U.S. Naval Academy	Mass.
Farrow, Robert Lee (Law III) B.S. in M.E. 1920, University of Maryland	D.C.	Gentler, Louis (Law II)	D.C.
Evans, William Wilder (Law II) A.B. 1930, University of Maryland	Md.	*Gillespie, Frank Smith (Law III)	Ill.
Fagelson, Bernard Melvin (Law I)	Va.	Gillis, Leslie, jr. (Law III) A.B. 1929, Virginia Military Institute	D.C.
Fax, Charles R. (Law II)	Mass.	Glemer, Harry W. (Law II) M.E. 1929, Drexel Institute	N.J.
Felthouse, Benjamin (Law III) B.S. 1931, The George Washington University	D.C.	†Godfrey, Howard Linwood (Law, Uncl.) B.S. 1918, University of Pennsylvania L.L.B. 1927, Temple University	D.C.
Ferebanier, Jack Aloise (Law I)	D.C.	Goez, Charles Moran (Law III)	Wis.
Fewer, Henry Martin (Law III) Ch.E. 1920, Rensselaer Polytechnic Institute	Conn.	†Goldberg, Martin (Law I) A.B. 1932, University of Delaware	Del.
Fielding, Eppa Parkes (Law I) B.S. 1931, Randolph-Macon Woman's College	Va.	Goode, Donald L. (Law III)	Iowa
Fillius, Maurice W. (Law II) A.B. 1924, Cornell University	D.C.	Gote, Harold Olen (Law I)	N.Mex.
Finkel, Elinor Keller (Law I) A.B. 1931, The George Washington University	D.C.	Gote, Philip Turner (Law II)	D.C.
Fisher, Wheeler Yule (Law I) A.B. 1932, American University	D.C.	Gratolph, William Frank, jr. (Law I)	Ohio
Fisher, William Alfred (Law II) A.B. 1927, University of Maryland A.M. 1930, The George Washington University	D.C.	Graham, Allen Griswold (Law I)	M.I.
Fleck, James Heeing (Law III) A.B. 1930, The George Washington University	Pa.	Grasherty, Billy Brown (Law I)	Va.
Fleming, William Wright (Law III)	Md.	Graves, James Miller (Law III) B.S. 1922, A.M. 1928, Harvard University	D.C.
Fleming, Arthur Sherwood (Law III) A.B. 1927, Ohio Wesleyan University A.M. 1928, American University	N.Y.	Gray, Robert Meade (Law III) A.B. 1930, The George Washington University	D.C.
Flocks, Karl Wilhelm (Law II) B.Eng. 1930, Johns Hopkins University	D.C.	Gray, Walter Thomas (Law II) Green, Charles Livingston (Law I)	Mont. Utah
Flournoy, Copley Winslow (Law I)	Ga.	Green, Thomas Lamar (Law I) A.B. 1931, Mississippi College	Miss.
Ford, Charles N. (Law II) A.B. 1928, Marshall College	W.Va.	Greenwalt, Gus A. (Law II) B.S. 1928, Carnegie Institute of Technology	Ill.
France, Floyd L. (Law II)	Nehr.	Greene, Orville N. (Law III) A.B. 1920, Lehigh University	D.C.
Frazier, Melvin S. (Law III) A.B. 1931, The George Washington University	N.Dak.	Greenwood, Joseph Richard (Law III) B.S. 1932, Indiana University	Ind.
Frazier, Vernon Allan (Law III) A.B. 1930, The George Washington University	N.Dak.	Griffin, Graydon McCoy (Law I)	Ark.
Fredricks, Anthony Theo (Law I)	Idaho	†Griffith, Arthur Walker (Law I) B.S. 1927, Virginia Military Institute	D.C.
Free, Harold G. (Law I) B.S. 1932, The George Washington University	Iowa	Griffith, Terry Dumar (Law I) Gukes, Albert R. (Law II)	Va.
		Gumsell, Frank Albert (Law III)	Colo.
		Grossman, Pauline (Law III)	Utah
		†Guest, Raymond Richard (Law I) A.B. 1931, Yale University	Ark.
		Gulick, Mary Smith (Law III) A.B. 1929, Randolph-Macon Woman's College	N.Y.
		Guthrie, Ross Ritter (Law II) A.B. 1928, Harvard University	Va.
			M.I.
		Hadley, Harold D. (Law II)	Iowa
		Hale, Frank Connell (Law III)	Tex.
		Hall, Margaret (Law I) A.B. 1928, Wellesley College	Mass.

Hall, Robert Edward Lee (Law II)	D.C.	Hinckley, Walter Freeman (Law, Special)	N.Y.
A.B. 1912, The George Washington University		Hirsch, Bennett Mason (Law III)	Fla.
†Hall, William Dolliff (Law I)	D.C.	B.S. 1928, University of Pennsylvania	
B.S. 1921, Carnegie Institute of Technology		M.S. 1929, Georgetown University	
Hammar, Ralph (Law III)	D.C.	Hitch, Robert A. (Law II)	D.C.
B.S. 1926, M.S. 1927, Massachusetts Institute of Technology		B.S. in C.E. 1929, University of Maryland	
Hammerness, Clarence Rudolph (Law II)	Mont.	Hockley, Herbert Alfred (Law I)	D.C.
Hanback, William Brecht (Law II)	D.C.	A.B. 1926, Lincolnton College	
A.B. 1912, The George Washington University		Hoffmann, John M. (Law II)	Calif.
†Handler, Emanuel (Law I)	Del.	Hogg, 1926, University of California	
A.B. 1912, University of Delaware		Hollingsworth, Lindsay Lee (Law III)	Tex.
Handloff, Herman (Law I)	Del.	Holmes, Franklin Austin (Law II)	Tex.
A.B. 1912, University of Delaware		A.B. 1910, The George Washington University	
Hannah, Paul Francis (Law III)	D.C.	Holmes, Louis A. (Law III)	Nebr.
B.S. 1927, Dartmouth College		A.B. 1928, University of Nebraska	
Hardy, Glen E. (Law II)	Utah	Hood, Wilson L. (Law III)	D.C.
A.B. 1920, University of Utah		Hoppe, Carolyn Louise (Law I)	Iowa
Harlan, Ashlan Hecwood, Jr. (Law II)	D.C.	A.B. 1925, Coe College	
A.B. 1926, The George Washington University		Hosch, H. Raymond Frederick (Law II)	D.C.
Hartness, Philip Kemp (Law I)	W. Va.	B.S. in E.E. 1919, The George Washington University	
Harris, Ernest Malone, Jr. (Law I)	S.C.	Houghton, Harry Belmont (Law I)	D.C.
A.B. 1921, Wake Forest College		B.S. 1921, University of Vermont	
Harris, John Law (Law II)	Va.	Houston, Paris T. (Law III)	Penn.
Harrison, Charles Harvey (Law I)	Conn.	A.B. 1925, Lincoln Memorial University	
A.B. 1925, Yale University		†Howard, F. Inez (Law I)	Kans.
Harrison, William Wirt, Jr. (Law I)	S.C.	A.B. 1928, The George Washington University	
Hartman, John Adams, Jr. (Law I)	Pa.	Hubbel, Carter Carol (Law II)	Wis.
A.B. 1926, Dickinson College		Hudson, Raymond Minor (Law I)	D.C.
Hastin, Lemuel Allen (Law II)	Md.	Hudson, Thomas Buford (Law II)	N.C.
B.S. 1927, University of Maryland		Hull, Neal Lay (Law I)	Iowa
†Havens, Nancy S. (Law I)	N.J.	Hughes, Carroll White (Law I)	Kans.
A.B. 1910, Rutgers University		A.B. 1922, The George Washington University	
Haviland, Harold Kenneth (Law I)	N.J.	Hughes, Joe D. (Law II)	Ala.
Ch.E. 1920, Polytechnic Institute of Brooklyn		Hurston, Earl W. (Law III)	D.C.
Hedrick, Oppie Lee (Law I)	W. Va.	B.S. 1916, University of Wisconsin	
Hefler, Paul Emile (Law II)	Mich.	Hutton, John H., Jr. (Law I)	D.C.
A.B. 1920, Dartmouth College		Hutton, Harry Theodore (Law II)	D.C.
Heilman, James Martin (Law I)	Pa.	B.S. 1926, The George Washington University	
E.E. 1911, Lehigh University		Hyde, Dewitt Stephen (Law II)	D.C.
Heinemann, Charles Berkery, Jr. (Law II)	D.C.	†Anson, Nannie Armistead (Law III)	D.C.
Heinrich, Joseph Edward (Law I)	D.C.	A.B. 1910, The George Washington University	
B.S. 1927, Catholic University of America		Irlon, Henry Gifford (Law I)	D.C.
†Helmke, Helen Margaret (Law III)	Calif.	A.B. 1912, Haverford College	Wash.
Helvestine, William (Law I)	D.C.	Ivers, Joseph S. (Law II)	Utah
Hendricks, John E. (Law II)	Md.	Iverson, Kenneth R. (Law II)	Utah
B.S. in E.E. 1926, The George Washington University		†Jackson, A. Rulon (Law III)	Tenn.
†Henry, Edward Ernest (Law II)	Wash.	Jackson, George Maynard (Law I)	
Herrick, Philip Field (Law III)	D.C.	B.S. 1912, The George Washington University	
A.B. 1921, Williams College		Jackson, Thomas Searing (Law II)	D.C.
Hirschman, Margie Wilhelm (Law II)	Wash.	Jeffreys, Robert Larrow (Law III)	W. Va.
Graduate 1911, U. S. Naval Academy		A.B. 1911, The George Washington University	
Hickey, Thomas James (Law II)	Mass.	Jennings, Harry Edmund (Law I)	Md.
B.S. 1920, Massachusetts Institute of Technology		Ph.B. 1912, University of Wisconsin	
High, Edward Louis (Law II)	Pa.	Johannsen, George Thomas (Law II)	D.C.
B.S. in C.E. 1920, University of Michigan		Johns, Llewellyn James (Law I)	Ohio
Hilbert, William Edward (Law III)	Calif.	Graduate 1920, U. S. Naval Academy	
Graduate 1917, U. S. Naval Academy		†Johnson, Ervin George (Law, LL.M.)	Calif.
A.M. 1926, Columbia University		B.S. 1927, University of California	
Hill, Richard A. (Law I)	Pa.	LL.B. 1911, The George Washington University	
A.B. 1912, The George Washington University		Johnson, George Edmund (Law III)	D.C.
Hill, Samuel Thomas (Law I)	N.C.	B.M.E. 1927, Northeastern University	
A.B. 1912, The George Washington University			



Johnson, Livingston Lee (Law I) B.S. in C.E. 1931, The George Washington University	D.C.	Koren, Samuel (Law I) B.S. 1936, Massachusetts Institute of Technology	Mass.
Johnson, Paul Gerhard (Law I) Johnson, Vernon Webster (Law I) Ph.M. 1925, University of Wisconsin	Wis.	Korth, Frederick Herman (Law I) A.B. 1912, University of Texas	Ten.
Johnson, William Roy (Law II) B.C.S. 1924, New York University	D.C.	Kosowsky, Jack Lee (Law II) B.S. in C.E. 1930, University of Nebraska	Nebr.
Johnston, Albert Caldwell (Law II) A.B. 1930, The George Washington University	Va.	Kramer, Albert (Law II) B.S. in M.E. 1930, University of Virginia	Va.
Johnston, Richard Leiter (Law I) B.S. 1929, John Hopkins University	Md.	Kranzert, Reginald Joseph (Law II) A.B. 1930, The George Washington University	D.C.
Jones, Ralph Edmund, jr. (Law I) Jones, Wilber Glenn (Law I) Graduate 1922, U. S. Naval Academy	D.C. Iowa	Krieger, Abraham Bernard (Law II) B. Eng. 1925, Johns Hopkins University	N.Y.
Justus, Chester Lee (Law III) B.S. in E.E. 1928, University of Idaho	D.C.	Kuntz, Helen Pearl (Law I) Lichowicz, John Stanley (Law III) B.S. 1922, A.M. 1923, Wesleyan University	Conn.
Kamm, Edmund William E. (Law II) B.S. in M.E. 1930, Purdue University	Ind.	Laiting, John Thomas (Law I) Lane, Donald Edward (Law I) B.S. 1931, Yale University	W.Va. Md.
Kauffman, Vernet Charles (Law II) B.S. 1928, Pennsylvania State College M.S. 1930, Massachusetts Institute of Technology	Pa.	Langford, G. Frank (Law III) M.E. 1927, Stevens Institute of Technology	N.Y.
Keating, George Joseph (Law II) Keatley, George Harold (Law III) Ph.B. 1927, Dickinson College	N.Y. Pa.	Lannan, John Vincent (Law III) Latsombe, John Ray (Law I) Latimer, Cecil (Law II) B.S. in E.E. 1925, Georgia School of Technology	Minn. Va. Fla.
Keefer, John Rankin (Law I) Keller, Hunter Lambert (Law I) Keller, William Davis (Law III) A.B. 1929, University of Southern California	D.C. D.C. Calif.	Lebel, Arthur Leo (Law I) B.F.S. 1928, Georgetown University	D.C.
Kellogg, Clyde Elmer (Law II) Kemeny, David M. (Law II) Kemeny, Howard (Law II)	D.C. Utah Nebr.	Ledman, Hornbaker B. (Law II) Lee, Donald E. (Law II) The Gates, Eber Thomson (Law, Uncl.) B.S. 1928, University of Delaware	Va. Wash. Del.
Kernell, Christian Raber (Law I) Kerkam, William Barron, Jr. (Law I) B.S. 1922, Princeton University	Ind. D.C.	Le B. 1932, The George Washington University	
Kerst, Paul Edward (Law II) Graduate 1928, U. S. Naval Academy	Ill.	Hlemon, Andrew Duxall (Law I) B.S. in Eng. 1932, Princeton University	D.C.
Kerr, William Ward (Law II) A.B. 1925, Ohio Wesleyan University	D.C.	Lenny, Lewis C. (Law II) B.S. 1921, Worcester Polytechnic Institute	Mass.
Kerthine, Emma (Law I) Kilgore, Lowell Berry (Law I) A.B. 1923, A.M. 1925, Oberlin College	D.C. D.C.	Leonning, Leo John (Law II) B.S. 1926, Oregon State Agricultural College	N.Y.
Ph.D. 1930, Johns Hopkins University		Leopold, Max (Law I) Ph.B. 1911, Yale University	Conn.
Killamney, Francis M. (Law I) Kilham, Joe F. (Law III) Kimbball, Arthur Allen (Law III) A.B. 1931, The George Washington University	Mass. Mich. Mass.	Lerch, Henry F. (Law I) A.B. 1922, Wesleyan University	D.C.
Kinsler, James M. (Law I) Kirkwood, Robert Hoyt (Law II) A.B. 1924, University of Montana	Nebr. D.C.	Lerner, Abraham Max (Law I) B.S. in Eng. 1931, University of Pennsylvania	D.C.
Kirtelle, Sumner Sigshel (Law I) B.S. in C.E. 1931, Purdue University	N.Y.	Letts, David S. (Law I) A.B. 1932, Parsons College	Iowa
Kla, John Ignus (Law Special) B.S. 1923, University of Wisconsin	Wis.	Leventhal, Edwin (Law II) Levitt, Benjamin (Law II) Lewis, Reece, Jr. (Law I) A.B. 1932, Yale University	D.C. D.C. D.C.
Klempay, Francis Joseph (Law III) B.S. 1929, Carnegie Institute of Technology	Ohio	Ligon, David Stovall (Law II) Lindquist, Willis I. (Law, I.L.M.) L.L.B. 1932, The George Washington University	Va. Minn.
Kline, Robert Charles, jr. (Law III) Klivitzy, Boris Max (Law III) A.B. 1931, The George Washington University	Mich. D.C.	Linscott, Henry Dallas (Law III) B.S. 1933, Kansas State Agricultural College	Kans.
Knight, Frederick Hawley (Law III) B.S. in E.E. 1925, Worcester Polytechnic Institute	Vt.	Little, Leroy C. (Law III) B.S. in E.E. 1924, University of Minnesota	Wis.
Knocher, Vernon William (Law II) Knudson, James K. (Law II) Koleman, Waino Mathias (Law II) B.S. in E.E. 1930, Union College	Wash. Utah Ohio	Littlehales, George Reber (Law III) B.S. 1925, Princeton University	D.C.
		Lloyd, Fergus L. (Law III)	Miss.



Paulson, Lynn Clifford (Law II) A.B. 1911, The George Washington University	N.C.	Rathburn, M. Hudson (Law II) B.S. 1921, University of Colorado	Colo.
Paulus, George Melchior (Law II)	Wis.	Rawalt, Marguerite (Law III)	Tex.
Pearson, John Thomas (Law, LL.M.) LL.B. 1916, University of Kansas	Mo.	Reed, Gordon (Law I) B.S. in M.E. 1920, University of Minnesota	Minn.
Pedersen, Lawrence B. (Law III) A.B. 1926, Grinnell College	Iowa	†Reed, Mabel Christina (Law I) A.B. 1912, The George Washington University	Mont.
Peelle, Stanton Canfield, jr. (Law II)	Md.	Rees, Elizabeth Ann (Law I) A.B. 1912, The George Washington University	Va.
Pegram, Thomas Edward (Law I)	Miss.	Remsen, Charles Cornell, jr. (Law III) E.E. 1930, Cornell University	N.J.
Perrut, Jack (Law II) A.B. 1911, The George Washington University	D.C.	†Replegle, Thelma Alice (Law I) A.B. 1911, The George Washington University	D.C.
†Perring, Katherine (Law I) A.B. 1912, Grinnell College	Iowa	Roznek, Joel (Law II) Rice, Roland (Law III)	D.C. Md.
†Perry, Albert Walter (Law, LL.M.) LL.B. 1912, The George Washington University	Fla.	A.B. 1920, American University	D.C.
†Peterson, Ben Stuart (Law I)	Idaho	Richards, J. Walsh (Law II)	Utah
Peverill, William Leroy (Law III) B.S. in M.E. 1927, University of Maryland	D.C.	Richards, Karl Morgan (Law II) A.B. 1927, University of Utah	Ohio
Phillips, Lawrence Akers (Law III) A.B. 1911, The George Washington University	D.C.	Richey, Robert Charles (Law III)	Kans.
Pickens, Dallas (Law II)	D.C.	Richmond, David Walker (Law I) Rigby, Scott G. (Law I)	D.C.
Pillars, Miles Dorwin (Law III) B.S. 1928, Oregon State Agricultural College	Oreg.	†Rogley, Ira William (Law, Special)	N.Y.
Pisatta, Francis Joseph (Law III) F.E. 1930, Rensselaer Polytechnic Institute	N.Y.	†Rogley, Edward Eugene (Law II) A.B. 1911, Hobart College	D.C.
Pirle, Hubert (Law I)	D.C.	Riordan, Robert Callahan (Law II) B.S. in M.E. 1929, Catholic University of America	D.C.
Pittman, John Irvin (Law I)	Va.	Roberts, Eugene Joseph (Law II) B.S. 1930, University of Maryland	Utah
Plugg, John A. (Law II) B.S. 1922, M.S. 1925, Massachusetts Institute of Technology	Mass.	Roberts, Ralph S. (Law III)	Ky.
Pollwitz, Morton Lee (Law III) A.B. 1911, The George Washington University	N.J.	Robinson, William Walker (Law III)	W.Va.
†Poole, William Hubert (Law I)	Md.	Rodgers, George C. (Law III) B.S. 1922, Davis and Elkins College	Va.
Porro, Fortunato Igino (Law I)	Mass.	*Rohrer, Carl Pepper (Law III) A.B. 1911, The George Washington University	Utah
Porter, Alexander Munn (Law II)	D.C.	Romney, Blaine Taylor (Law II)	Ind.
Porter, George Wilbur (Law II) A.B. 1910, Dartmouth College	N.Y.	Ronald, James Hall (Law III) A.B. 1922, Earlham College	Minn.
Porter, William Bracken (Law II)	Ind.	Roaming, Henry Leigh (Law II)	Md.
Portnow, Maurice Marvin (Law I) B.S. 1930, University of Illinois	Ill.	†Rose, Jesse Aaron (Law, Special)	Utah
Powell, Gladys (Law II) A.B. 1932, John B. Stenson University	Fla.	Ross, George John (Law I) Ross, Stanley Edward (Law II)	Mich.
Powell, Harold Neally (Law III) B.S. 1929, University of Maine	D.C.	B.S. 1926, Michigan State College of Agriculture and Applied Science	Iowa
Pringle, Curtis Frederick (Law II) B.S. in E.E. 1930, The George Washington University	D.C.	Rossman, Richard (Law, Uncl.) A.B. 1907, Cornell University	
†Price, Henry Ellis (Law I) A.B. 1932, Emory University	Ga.	LL.B. 1926, The George Washington University	
Price, Leonard H. (Law II)	Md.	Rothenburg, Clarence Fullmer (Law III) A.B. 1930, University of Kentucky	D.C.
Quale, Franklin E. (Law II) B.S. in M.E. 1930, University of Michigan	Ohio	†Roudabush, William Gladstone (Law I) Rule, Raymond (Law III)	D.C. Pa.
Quijano, Juan R. (Law III) B.F.S. 1927, Georgetown University	P.R.	Rupert, J. Allison (Law, LL.M.) A.B. 1927, Ohio State University	
Radue, Richard Glover (Law II) B.S. in Eng. 1931, The George Washington University	D.C.	LL.B. 1931, The George Washington University	Mich.
Randolph, Cary Jacquelin (Law I) A.B. 1927, University of Virginia	Va.	Rupert, Sheldon (Law II) A.B. 1931, Kalamazoo College	D.C.
Ratcliffe, Joseph Leinson (Law II) A.B. 1911, The George Washington University	D.C.	†Rush, Orville Findley (Law II) Russell, Frank B. (Law II)	Ala.
		A.B. 1930, University of Alabama	D.C.
		Rverson, John Edward (Law III) A.B. 1928, University of Maryland	
		Sailor, Hobart Andrew (Law III) Graduate 1918, U. S. Naval Academy	Kans.
		Salisbury, Clarence Arnold (Law II)	

Salisbury, Stanley Joseph (Law I)	Del.	Simon, Glenn (Law II)	Okla.
A B. 1933, University of Delaware		B.S. 1927, Oklahoma Agricultural and Mechanical College	
Saltzman, Frank R. (Law II)	D.C.	Simon, Leon (Law II)	D.C.
Sandall, Eleanor Tripp (Law I)	D.C.	B.S. in Ch. E. 1930, University of Illinois	
Ph. B. 1922, University of Chicago		Simons, Richard Hamilton (Law III)	N. Dak.
Sands, William Hupp (Law I)	Md.	Simpson, Donald James (Law II)	D.C.
A B. 1931, University of Pennsylvania		B.S. in F. E. 1927, F. E. 1930, Northwestern University	
Sannebeck, Norville Harrison (Law I)	Mo.	Simpson, Elsworth Tenley (Law I)	Va.
A B. 1931, The George Washington University		Sisson, Floyd W. (Law II)	Tex.
Sapp, Robert Asa (Law I)	Ga.	A B. 1928, Simmons University	
Scatterday, George H. (Law I)	Idaho	Smethurst, Raymond S. (Law II)	Mass.
B.A. 1931, University of Washington		B.S. 1927, Harvard University	
Schimmel, Joseph (Law II)	Md.	Smith, Austin William (Law I)	N. Y.
B.S. in Ch. E. 1923, Carnegie Institute of Technology		Smith, Bertha May (Law II)	Pa.
Schmeitz, Andrew Hubert (Law II)	D.C.	A B. 1933, Goddard College	
A B. 1928, University of Pittsburgh		Smith, H. Albert (Law I)	Mo.
Schmidt, Walter Theodore (Law I)	D.C.	Smith, James Sermon (Law I)	Utah
A B. 1932, The George Washington University		B.S. 1926, Utah State Agricultural College	
Schmidt, Wilbur A. (Law, I. L. M.)	Wis.	Smith, John Wallace (Law II)	Ohio
I. L. B. 1932, Marquette University		Smith, Raymond Sherman (Law I)	Okla.
Schurz, Paul Joseph (Law II)	Wis.	Smith, Reginald Frank (Law III)	Pa.
B.S. in M. E. 1922, Purdue University		Ch. E. 1922, Lehigh University	
Schober, Arthur J. (Law II)	D.C.	Smith, Walter Barrett (Law II)	Va.
Schofer, Harry N. (Law III)	D.C.	A B. 1931, College of William and Mary	
B.S. in C. E. 1922, The George Washington University		Smoot, Charles Effinger (Law II)	Pa.
Schofield, William W. (Law III)	D.C.	Smythe, D. Verner (Law II)	Ill.
Schroten, Dudley John (Law III)	Mich.	M.E. 1928, Cornell University	
I. L. B. 1930, University of Michigan		Snow, Alvah Lester (Law I)	Mo.
Schwartz, Samuel (Law III)	Conn.	†Snow, R. Dale (Law II)	Utah
Schwartz, Benjamin Klein (Law I)	D.C.	Snore, Anne (Law III)	Md.
Schwartz, Harry Donald (Law II)	Ill.	A B. 1928, The George Washington University	
Seaver, Frank Edward (Law III)	D.C.	Snyder, Albert Ralph (Law II)	D.C.
A B. 1931, The George Washington University		Snyder, Henry S. (Law II)	D.C.
*Seeman, Keith Lorraine (Law III)	Utah	Spangler, George W. (Law III)	Pa.
B.S. 1932, Brigham Young University		A B. 1927, The George Washington University	
Seibold, Myron James (Law III)	Pa.	Spang, John (Law II)	Calif.
B.S. in F. E. 1928, Carnegie Institute of Technology		B.S. in F. E. 1927, The George Washington University	
Shands, Richard Fennes (Law, I. L. M.)	D.C.	Spencer, David Cushman (Law II)	Utah
B.S. 1918, I. L. B. 1921, University of Virginia		A B. 1932, University of Utah	
*Shapiro, Arthur (Law III)	D.C.	Spielman, William Paul (Law II)	D.C.
B. Eng. 1921, Johns Hopkins University		A B. 1931, The George Washington University	
Sharp, Freeman Wilfred, Jr. (Law III)	D.C.	Spivak, Joseph Harry (Law I)	Conn.
A B. 1931, The George Washington University		Spencer, Berth (Law I)	Kans.
Sheldon, Alice Colbert (Law II)	D.C.	Stanley, William S. (Law I)	D.C.
A B. 1926, The George Washington University		A B. 1931, The George Washington University	
Shelton, Frederick DeWitt (Law III)	Mo.	Stauffer, David Rinehart (Law I)	D.C.
A B. 1936, Drury College		Steele, John Winton (Law II)	Idaho
Sherbondy, Donald J. (Law II)	Pa.	Stein, Coleman Bess (Law II)	D.C.
A B. 1930, Ohio Wesleyan University		Seiner, Alexander William (Law I)	N. Y.
A M. 1931, American University		Stephens, Francis Dovershaw (Law II)	D.C.
Sherfy, Laurence Polkinhorn (Law I)	D.C.	B.S. 1927, University of Maryland	
Sherfy, Raphael (Law I)	D.C.	Stewart, George Emory (Law I)	Utah
Shilling, Katherine Emma (Law I)	Ohio	†Stone, Charles Parker (Law II)	D.C.
A B. 1928, Wellesley College		A B. 1926, Yale University	
Shouse, John Henry (Law I)	Kv.	Stone, Franklin Martin (Law II)	Minn.
A B. 1931, Berea College		Stoner, George B. (Law, I. L. M.)	D.C.
Shrivers, Harry C. (Law, Incl.)	D.C.	A B. 1927, I. L. B. 1928, Yale University	
Shumaker, L. O. (Law II)	Ill.	Stover, John Lewis (Law III)	Pa.
B.S. 1932, University of Illinois		Stull, Harold W. (Law III)	Pa.
Sigler, Wendell Percy (Law I)	Md.	A B. 1927, Pennsylvania State College	
A B. 1920, Dartmouth College		†Stoll, Neil Francis (Law III)	Ohio
Siler, Allene Koffler, Jr. (Law III)	Pa.	A B. 1921, Ohio State University	
Silverman, Louis (Law II)	D.C.	Stults, Harold L. (Law II)	Ind.
A B. 1932, The George Washington University		B.S. in F. E. 1930, Purdue University	

†Summers, Vaughn Wachen (Law II)	Ill.	Walter, Paul Bradbury (Law II)	Ill.
Swanson, Harold A. (Law II)	Mass.	B.S. 1925, Dartmouth College	Urb.
B.Ch.E. 1925, Northeastern University		Wanless, Ralph Page (Law I)	D.C.
Sweeney, Charles Amos (Law II)	Ohio	Ward, Chester Charles (Law II)	
Swickard, Arthur Francis (Law II)	D.C.	B.S. 1931, Georgetown University	Conn.
Swing, Lester Monroe (Law I)	D.C.	Waterhouse, Robert Carmack (Law II)	
B.S. in M.E. 1912, The George Washington University		B.S. in E.E. 1930, Carnegie Institute of Technology	D.C.
Syphers, Grant Eugene (Law I)	Utah	Watkins, Kennedy Campbell (Law I)	
Tennev, E. Paul (Law II)	Wash.	A.B. 1912, The George Washington University	D.C.
A.B. 1926, Stanford University		Weaver, Benjamin Woodruff (Law III)	D.C.
Thomas, Edwin Merion (Law I)	Colo.	Webster, Joseph Harry (Law II)	D.C.
Thomas, George Samuel (Law I)	Ohio	Wenger, Albert Vernon (Law I)	Mich.
Thompson, Nat P. (Law III)	Ill.	Wenzel, Frank Hayes (Law II)	D.C.
†Thompson, Owen Gardner (Law I)	D.C.	A.B. 1931, The George Washington University	
Thurman, William Taft (Law I)	Utah	Wells, John River (Law II)	Pa.
A.B. 1931, University of Utah		B.S. 1920, Lafayette College	Ill.
Tiencken, Wilfred P. (Law I)	S.C.	Werlich, Edgar Julius (Law II)	
B.S. in C.E. 1920, Clemson College		M.E. 1930, Cornell University	D.C.
Tilden, Richard Atwood (Law I)	D.C.	Wertz, Hugh Slater (Law II)	
Tomlin, Carl William (Law II)	Mo.	B.S. in E.E. 1926, The George Washington University	Miss.
Tome, George LaRue (Law III)	Pa.	West, Charles Whitney (Law II)	Urb.
A.B. 1930, Washington and Jefferson College		Graduate 1920, U. S. Military Academy	Va.
Frank, Alfred S. (Law III)	Minn.	West, Wilburn Clyde (Law I)	
B.S. in E.E. 1923, University of Minnesota		Weston, Wilson Emmert (Law I)	
†Triley, O. Edward (Law III)	Nebr.	A.B. 1925, College of William and Mary	
A.B. 1926, The George Washington University		A.M. 1920, Columbia University	Iowa
Friendell, Henry Palmer (Law II)	N.J.	Whipple, M. Edith (Law I)	N.Y.
C.E. 1910, Cornell University		White, Dean Watson (Law I)	
Tuhy, Stephen, Jr. (Law II)	D.C.	A.B. 1931, Allegheny College	Ohio
Turkel, Harry Raymond (Law II)	D.C.	White, George A. (Law II)	
A.B. 1927, Stanford University		A.B. 1931, The George Washington University	Md.
Turebull, Frederick William (Law II)	D.C.	White, Richard M. (Law I)	
†Tilman, Terrold B. (Law I)	D.C.	A.B. 1930, University of Maryland	Mich.
Underhill, Wingate Egerton (Law I)	N.C.	Whited, Norman William (Law II)	
B.S. in C.E. 1930, University of North Carolina		B.S. in C.E. 1914, Bucknell University	Calif.
Underwood, Raymond (Law I)	D.C.	†Wildman, John Philip (Law I)	
B.S. 1920, Massachusetts Institute of Technology		B.S. in C.E. 1930, The George Washington University	Mass.
Van Deman, Wilma (Law II)	Ind.	Wilkins, Donald Leroy (Law I)	
Vanderwerker, Benjamin Franklin (Law II)	Md.	A.B. 1931, Olivet College	D.C.
C.E. 1908, Rensselaer Polytechnic Institute		Wilkinson, Enloe (Law I)	Ill.
Vander Zant, Richard Peter (Law I)	Mich.	Williams, Abner Lane (Law I)	Miss.
Van Dyke, Oro LaMont (Law II)	Utah	Williams, Frank Latham (Law I)	
Vander, Arthur Alexis (Law I)	D.C.	A.B. 1924, Mississippi Agricultural and Mechanical College	
B.Eng. 1930, Johns Hopkins University		A.M. 1926, University of North Carolina	Mass.
Vaughn, Thomas Rae (Law I)	Ark.	Willford, Imogene (Law, LL.M)	
Vaughn, John Robert (Law II)	Ind.	LL.B. 1929, The George Washington University	
B.S. 1929, Rose Polytechnic Institute		R.P.S. 1917, American University	Ala.
Vahber, Alfred Wheeler (Law II)	D.C.	William, John James (Law II)	
B.S. 1930, Worcester Polytechnic Institute		B.S. 1930, Alabama Polytechnic Institute	D.C.
†Wainwright, Mildred Powers (Law III)	Ill.	Windsor, Paulina (Law III)	Pa.
Wack, Estelle (Law II)	Pa.	Wingard, Jay Francis (Law II)	
A.B. 1926, The George Washington University		A.B. 1927, Ohio Northern University	D.C.
Waldman, Jacob (Law II)	Pa.	Wise, Charles Conrad, Jr. (Law I)	Ind.
A.B. 1920, University of Pennsylvania		Wisehart, H. M. (Law II)	Mich.
†Waller, O. Merle (Law I)	Kans.	Wolcott, Cassius John (Law I)	Kan.
B.S. 1930, Kansas State Teachers College		R.Ch. 1932, Cornell University	
Walker, Walter K. (Law III)	Urb.	Wolfe, Richard Russell (Law II)	
Wallace, George Lloyd (Law III)	D.C.	B.S. 1920, M.S. 1926, Massachusetts Institute of Technology	Md.
Graduate 1921, U.S. Naval Academy		Wood, John Sumner (Law III)	
Waller, Philip David (Law III)	Ind.	B.S. 1925, Harvard University	Ohio
		Wright, James Warren (Law II)	
		A.B. 1922, Ohio Wesleyan University	
		A.M. 1923, Ohio State University	

# *The Law School*

43

Wright, Joseph Sutherland (Law II)	Mont.	Young, James A. (Law I)	Idaho
Wright, Fred and Walter (Law I)	Calif.	Young, John Arthur (Law II)	N.Y.
Wright, 1926, U. S. Naval Academy		E. F. 1928, Rensselaer Polytechnic	
W. Thompson, Edwin Henry (Law II)	S.C.	Institute	
W. 1926, The Citadel		Young, Walter Hopkins (Law III)	Ohio
W. 1926, The Citadel	D.C.	A.B. 1924, Ohio Wesleyan University	
W. 1926, Huntington College		Ziegwill, Bernard Louis (Law III)	D.C.
Yaffee, Anne R. (Law II)	D.C.	B.S. 1924, M.S. 1926, Massachusetts	
A.B. 1924, The George Washington		Institute of Technology	
University		Zitelli, Kenneth John (Law III)	Conn.
Yinger, Elmer Floyd (Law I)	Pa.	Zitman, Ross Barnard (Law II)	D.C.
York, Foster (Law II)	D.C.		



# SUMMARIES OF REGISTRATION

1932-33

## NUMBER OF REGISTRATIONS

Candidates for the degree of Bachelor of Laws:	273
First year .....	303
Second year .....	204
Third year .....	780
Total .....	32
Candidates for the degree of Master of Laws .....	812
Total candidates for degrees .....	7
Unclassified students .....	4
Special students .....	823
Total .....	

## GEOGRAPHICAL DISTRIBUTION OF STUDENTS

Alabama.....	8	New Jersey.....	12
Arizona.....	1	New Mexico.....	3
Arkansas.....	12	New York.....	33
California.....	10	North Carolina.....	6
Colorado.....	4	North Dakota.....	21
Connecticut.....	15	Ohio.....	7
Delaware.....	5	Oklahoma.....	4
District of Columbia.....	236	Oregon.....	32
Florida.....	5	Pennsylvania.....	8
Georgia.....	9	South Carolina.....	3
Idaho.....	9	South Dakota.....	5
Illinois.....	28	Tennessee.....	13
Indiana.....	19	Texas.....	47
Iowa.....	17	Utah.....	3
Kansas.....	16	Vermont.....	37
Kentucky.....	5	Virginia.....	9
Louisiana.....	4	Washington.....	13
Maine.....	8	West Virginia.....	12
Maryland.....	49	Wisconsin.....	3
Massachusetts.....	23	Wyoming.....	1
Michigan.....	13	France.....	1
Minnesota.....	9	Hawaii.....	2
Mississippi.....	9	Philippine Islands.....	1
Missouri.....	8	Puerto Rico.....	1
Montana.....	5	Siam.....	
Nebraska.....	10	Total .....	823
New Hampshire.....	2		

## GRADUATES OF COLLEGES REGISTERED IN THE LAW SCHOOL

Alabama Polytechnic Institute....	2	Alma College.....	1
Alabama, University of.....	1	American University.....	7
Allegheny College.....	1	Amherst College.....	1

Arkansas College.....	1	Kansas State Teachers College.....	2
Arkansas State Teachers College..	1	Kansas, University of.....	2
Arkansas, University of.....	5	Kentucky, University of.....	1
Armour Institute of Technology...	2	Lafayette College.....	2
Austin College.....	1	Lehigh University.....	4
Beloit College.....	1	Lincoln Memorial University.....	1
Berea College.....	1	Maine, University of.....	7
Bowdoin College.....	2	Marquette University.....	1
Brigham Young University.....	2	Maryland, University of.....	14
Bucknell University.....	1	Massachusetts Institute of Tech-	
California, University of.....	4	nology.....	11
Carnegie Institute of Technology...	8	Michigan State College.....	1
Catholic University of America...	3	Michigan, University of.....	5
Chicago, University of.....	3	Middlebury College.....	2
Citadel, The.....	2	Minnesota, University of.....	5
Clarkson College of Technology	1	Mississippi Agricultural and Me-	
Clemson College.....	1	chanical College.....	1
Coe College.....	1	Mississippi College.....	1
College of Charleston.....	2	Montana, University of.....	1
Colorado, University of.....	2	Nebraska, University of.....	4
Columbia University.....	4	Nebraska Wesleyan University...	1
Cornell University.....	11	New Hampshire, University of...	1
Dakota Wesleyan University.....	1	New Mexico, University of.....	2
Dartmouth College.....	7	New York University.....	3
Davidson College.....	1	North Carolina, University of.....	3
Davis and Elkins College.....	1	North Dakota, University of.....	1
Delaware, University of.....	5	Northeastern University.....	2
Dickinson College.....	3	Northwestern University.....	2
Drexel Institute.....	1	Norwich University.....	2
Drury College.....	1	Oberlin College.....	2
Duke University.....	1	Ohio Northern University.....	1
Earlham College.....	1	Ohio State University.....	4
Emory University.....	3	Ohio Wesleyan University.....	5
Furman University.....	1	Oklahoma Agricultural and Me-	
Georgetown University.....	7	chanical College.....	1
George Washington University.....	126	Oklahoma, University of.....	2
Georgia School of Technology.....	3	Olivet College.....	1
Goucher College.....	1	Oregon State Agricultural College...	2
Grinnell College.....	2	Oregon, University of.....	1
Hamilton College.....	1	Orterbein College.....	1
Hampden-Sydney College.....	1	Oxford University (England).....	6
Harvard University.....	9	Parsons College.....	1
Haverford College.....	1	Pennsylvania State College.....	3
Hawaii, University of.....	1	Pennsylvania, University of.....	6
Hillsdale College.....	2	Pittsburgh, University of.....	1
Hobart College.....	1	Polytechnic Institute of Brooklyn.	1
Huntingdon College.....	1	Princeton University.....	6
Idaho, University of.....	4	Purdue University.....	6
Illinois, University of.....	12	Randolph-Macon Woman's College	2
Indiana University.....	1	Rensselaer Polytechnic Institute...	6
Iowa, State University of.....	1	Rose Polytechnic Institute.....	3
John B. Stetson University.....	1	Rutgers University.....	1
Johns Hopkins University.....	5	St. John's College.....	3
Juniata College.....	1	Simmons University.....	1
Kalamazoo College.....	1	Southern California, University of.	1
Kansas State Agricultural College...	2	Stanford University.....	5

Stevens Institute of Technology...	2	Wesleyan University.....	2
Syracuse University.....	2	West Virginia University.....	2
Temple University.....	1	West Virginia Wesleyan University.....	1
Tennessee, University of.....	1	Western Maryland College.....	2
Texas, University of.....	4	Westminster College.....	1
Toledo, University of.....	1	Whitman College.....	1
Tufts College.....	1	William and Mary, College of.....	2
Union College.....	1	Williams College.....	1
U. S. Military Academy.....	1	Wilson College.....	1
U. S. Naval Academy.....	19	Wisconsin, University of.....	5
Utah, Agricultural College of.....	4	Worcester Polytechnic Institute...	4
Utah, University of.....	13	Yale University.....	9
Vanderbilt University.....	3	Yankton College.....	1
Vermont, University of.....	1		
Virginia Military Institute.....	2	Total.....	543
Virginia, University of.....	5	Counted twice.....	37
Wabash College.....	1		
Wake Forest College.....	2	Number of college graduates.....	506
Washburn College.....	1		
Washington and Jefferson College.....	1	Number of colleges represented.....	152
Washington and Lee University.....	3	Candidates for degrees who are college graduates....	494
Washington University.....	1	Percent.....	60.83
Washington, University of.....	2		
Wellesley College.....	3		

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WASHINGTON  
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1933-34



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JUNE 1933

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AT WASHINGTON, D. C.

FEBRUARY, APRIL, MAY, JUNE, AND DECEMBER

ENTERED OCTOBER 6, 1904, AT WASHINGTON, D. C.

AT SECOND-CLASS MATTER

UNDER THE ACT OF CONGRESS OF JULY 16, 1894

THE LAW SCHOOL  
1933-34





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1933

July						
S	M	T	W	T	F	S
..	..	..	..	..	..	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	..	..	..	..	..

August

..	..	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	..	..

September

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3	4	5	6	7	8	9
10	11	12	13	14	15	16
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24	25	26	27	28	29	30

October

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8	9	10	11	12	13	14
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22	23	24	25	26	27	28
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November

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December

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1934

January						
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February

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March

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April

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May

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June

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July						
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August

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September

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October

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November

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25	26	27	28	29	30	..

December

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9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

# CALENDAR OF THE LAW SCHOOL

## 1933-34

Date	Days	Occasion
1933 September 18-19	Monday and Tuesday	Registration period for the first semester
September 20	Wednesday	Academic year begins
October 3	Tuesday	Last day for late registration for the first semester
October 18	Wednesday	Fall Convocation
November 30-December 2	Thursday to Saturday, both dates inclusive	Thanksgiving recess
December 21-January 2	Thursday to Tuesday, both dates inclusive	Christmas recess
1934 January 3	Wednesday	Classes resumed
January 8	Monday	Last day for applications for degrees to be conferred in February
January 8-19	Monday to Friday, both dates inclusive	Preregistration period for the second semester
January 20-27	Saturday to Saturday, both dates inclusive	Midyear examination period
January 31-February 1	Wednesday and Thursday	Registration period for the second semester
February 2	Friday	Classes resumed for the second semester
February 15	Thursday	Last day for late registration for the second semester
February 22	Thursday	Midwinter Convocation. Holiday
March 30-April 4	Friday to Wednesday, both dates inclusive	Easter recess
May 1	Tuesday	Last day for applications for degrees to be conferred in June
May 16-June 2	Wednesday to Saturday, both dates inclusive	Final-examination period
May 30	Wednesday	Memorial Day. Holiday
June 3	Sunday	Baccalaureate Sermon
June 6	Wednesday	Commencement
June 11	Monday	First summer term begins
July 25	Wednesday	First summer term ends
July 26	Thursday	Second summer term begins
September 8	Thursday	Second summer term ends
September 17-18	Saturday Monday and Tuesday	Registration period for the first semester of the academic year 1934-35





## THE BOARD OF TRUSTEES

The Board of Trustees of the University is comprised of the President of the University, ex officio, and the following persons by election:

1934

- John Henry Cowles, 1733 Sixteenth Street.  
Robert Vedder Fleming, Riggs National Bank.  
Julius Garfinckel, Fourteenth and F Streets.  
Charles Carroll Glover, jr., A.M., LL.B., 1508 H Street.  
\*Stephen Elliott Kramer, A.M., Ed.D., Franklin Administration Building.  
Arthur Peter, LL.B., Washington Loan and Trust Building.  
Mrs. Henry Alvah Strong, The Mayflower.  
Merle Thorpe, A.B., United States Chamber of Commerce Building.  
\*Alfred Adams Wheat, A.B., LL.B., LL.D., District Court House.

1935

- \*Avery DeLano Andrews, LL.B., 440 Park Avenue, New York City.  
Clarence Aiken Aspinwall, 1140 Fifteenth Street.  
\*John Joy Edson, LL.B., 915 F Street.  
Mrs. Joshua Evans, jr., A.B., Ed.D., 3405 Lowell Street.  
William James Flather, Riggs National Bank.  
John Hays Hammond, A.M., E.D., LL.D., 2221 Kalorama Road.  
Abram Lisner, A.M., 1723 Massachusetts Avenue.  
Charles Riborg Mann, Ph.D., Sc.D., 744 Jackson Place.  
Walter Rupert Tuckerman, A.B., LL.B., Bethesda, Md.

1936

- Karl William Corby, B.S., Hibbs Building.  
Harry Cassell Davis, A.M., L.H.D., 1921 Kalorama Road.  
\*George Edgar Fleming, LL.M., Union Trust Company.  
Charles William Gerstenberg, LL.B., 70 Fifth Avenue, New York City.  
Ulysses S. Grant, 3d, Graduate United States Military Academy and  
United States Engineers' School, Navy Building.  
Gilbert Grosvenor, A.M., LL.D., Litt.D., National Geographic Society.

\* Nominated by the alumni.

# STAFF OF INSTRUCTION IN LAW

## EMERITUS LIST

- JOHN PAUL EARNEST, A.M., LL.M., 3718 Huntington St.  
*Professor Emeritus of Criminal Law.*
- WENDELL PHILLIPS STAFFORD, A.M., LL.B., 1661 Crescent Pl.  
 LL.D., LL.T.D.,  
*Professor Emeritus of Law.*

## ACTIVE LIST

- ✓ LEVI RUSSELL ALDEN, A.M., LL.B., 3840 Harrison St. *Union Trust Bldg*  
*Lecturer in Law.*
- CARVILLE DICKINSON BENSON, JR., A.B., 51 Woodstock St.,  
 LL.B., S.J.D., Clarendon, Va.  
*Assistant Professor of Law.*
- ✓ EDWIN CHARLES BRANDENBURG, LL.M., Rockville, Md.  
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*Professorial Lecturer in Law.* DC Supreme Court
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*Assistant Professor of Law.*
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4416 Greenwich Parkway.

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Professor of Law.

720 20th St.

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Lecturer in Law.

1824 23d St.

*Dep't of State*

✓ FREDERICK CHARLES O'CONNELL, LL.M.,  
Associate in Law and Clerk of the Moot Court.

1108 Allison St.

*U.S. Supreme Court*

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Associate Professor of Law.

2121 New York Ave.

○ HECTOR GALLOWAY SPAULDING, B.S.,  
LL.B., S.J.D.,  
Professor of Law.

1423 Madison St.

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5601 Western Ave.,  
Cleveland, O.

*McLaughlin Bank Bldg.*

✗ WILLIAM CABELL VAN VLECK, A.B., LL.B.,  
S.J.D.,  
Professor of Law; Dean of the Law School.

4120 Harrison St.

\* On sabbatical leave first semester 1933-34.

✓ James R. Kirkland Esq.,  
U.S. D.A. Office

✓ Albert Conradis, Esq.,  
Chandler Bldg.





## THE LAW SCHOOL

### THE FACULTY

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University.*

William Cabell Van Vleck, A.B., LL.B., S.J.D., *Dean of the Law School*

### STAFF OF INSTRUCTION

Walter Collins Clephane, LL.M., LL.D., *Professor of Law.*

Edwin Charles Brandenburg, LL.M., *Professor of Law.*

John Wilmer Latimer, LL.B., *Professor of Law.*

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William Armstrong Hunter, A.B., LL.M., *Associate Professor of Law.*

William Thomas Fryer, A.B., LL.B., J.D., *Associate Professor of Law.*

Saul Chesterfield Oppenheim, A.M., J.D., S.J.D., *Associate Professor of Law.*

Carville Dickinson Benson, jr., A.B., LL.B., S.J.D., *Associate Professor of Law.*

James Forrester Davison, A.B., LL.M., S.J.D., *Assistant Professor of Law.*

John Albert McIntire, A.B., LL.B., *Assistant Professor of Law.*

Levi Russell Alden, A.M., LL.B., *Lecturer in Law.*

Gilbert Lewis Hall, A.B., LL.B., *Lecturer in Law.*

Clarence Altha Miller, LL.M., *Lecturer in Law.*

Ralph Hoskins Hudson, Graduate U. S. Naval Academy, LL.B., *Lecturer in Law.*

James Oliver Murdock, Ph.B., LL.B., *Lecturer in Law.*

Frederick Charles O'Connell, LL.M., *Associate in Law and Clerk of the Moot Court.*

\* On sabbatical leave first semester 1933-34.

## MOOT COURT OF APPEALS

Leon Tobriner, LL.B., *Chief Justice.*Brainard Warner Parker, LL.B., *Associate Justice.*George Francis Williams, LL.M., *Associate Justice.*

## COMMITTEES\*

## THE DEAN'S COUNCIL†

Carville Dickinson Benson, jr.

Charles Sager Collier

James Forrester Davison

William Thomas Fryer

William Armstrong Hunter

Walter Lewis Moll

Saul Chesterfield Oppenheim

Hector Galloway Spaulding

## COMMITTEE ON LIBRARY

Saul Chesterfield Oppenheim, *Chairman*

Charles Sager Collier

Walter Lewis Moll

The Law Librarian

## COMMITTEE ON REINSTATEMENT

James Forrester Davison, *Chairman*

Charles Sager Collier

Walter Lewis Moll

## COMMITTEE ON REGISTRATION

William Cabell Van Vleck, *Chairman*

William Thomas Fryer

William Armstrong Hunter

Saul Chesterfield Oppenheim

## ADVISER TO PRELEGAL STUDENTS

Carville Dickinson Benson, jr.

## GENERAL INFORMATION

## INTRODUCTORY

The George Washington University Law School, established in 1826, discontinued somewhat later, and reorganized in 1865, is the oldest in the District of Columbia. The course of instruction for the degree of

\* The President of the University and the Dean of the Law School are ex-officio members of all committees.

† Elected by the Faculty

Bachelor of Laws, originally requiring two years, was increased in 1898 to three years. A course leading to the degree of Master of Laws was added in 1877. In 1900 the School took part in the organization of the Association of American Law Schools and has been a member of the Association since that time. In 1911 the School became coeducational. In 1924 the late afternoon course for students with limited schedules was increased to four years. On September 1, 1925, the entrance requirements were increased to two years of college work. The School is approved by the Council of Legal Education of the American Bar Association. Since September 1, 1925, it has occupied a new building, designed and constructed for its use. This building has been named Stockton Hall in honor of the late Rear Admiral Charles H. Stockton, President of the University from 1910 to 1918. The building contains nine classrooms, library space with a maximum capacity of 40,000 volumes, and ten offices for professors.

#### THE LIBRARY

The Law School Library contains the decisions of the highest courts of all the States, the Reports of the United States Supreme Court and other Federal courts, the English Reprints and English Law Reports, the United States Statutes, the statutes of all of the States, the English statutes, the principal English and American digests, legal encyclopedias and collections of annotated cases, and the leading textbooks and legal periodicals.

The library is open from 9 a.m. to 11 p.m. on week days and from 2 to 6 p.m. on Sundays.

#### THE LAW REVIEW

*The George Washington Law Review*, published quarterly by the University, is edited by the Faculty and students of the Law School. It is devoted exclusively to the field of governmental and Federal public law. The location of the University in the Nation's Capital, where the primary sources of Federal public law may be observed in operation, affords a unique opportunity for specialization in this field. Each issue includes leading articles, student editorials, notes on recent cases, and book reviews. Among the subjects included in this field are administrative law, admiralty, constitutional law, federal trade commission, international law, interstate commerce, immigration, patents, copyrights, trade marks, taxation, trade regulation, tariff commission, radio commission, and veteran's administration.

The editorial work of the *Review* is in charge of a Faculty editor-in-chief, a Faculty board of associate editors, a board of departmental advisory editors, and a board of student editors. The thirty-five student editors are chosen each year from those students who have completed forty semester-hours or more with an average of B or better. Membership



on the student editorial board is one of the highest honors as well as one of the most valuable experiences which may be attained by the law student.

#### ADMISSION

For a statement of the general regulations and procedure for admission to the University, see pages 48-52 of the University catalogue.

Applications for admission and certificates of prelegal study should be filed with the Director of Admissions not later than two weeks before the registration period. Applications for admission with advanced standing should be filed with the Dean of the Law School not later than ten days before the registration period.

#### FOR THE BACHELOR OF LAWS DEGREE

Candidates for this degree must have completed before admission fifteen units of approved secondary-school work, and at least two years—sixty semester-hour credits—of approved college work. The completion of this work must be evidenced by proper certificates. In no case will a student be admitted with a condition in any part of the entrance requirement. An application for admission may be rejected on the ground of unsatisfactory scholarship in prelegal studies.

The college work required for admission may be completed in the Junior College of The George Washington University. Applicants for such college work should communicate with the Director of Admissions of the University.

#### ADVANCED STANDING

Students from approved law schools may receive not more than two years' credit toward the degree of Bachelor of Laws for work done in such schools. Applicants for admission with advanced standing must file certified transcripts of record showing high-school, college, and law credits. The right is reserved to refuse such credit, in whole or in part, or to allow it conditionally or after examination, and credit given may be withdrawn for subsequent poor work. No student will be admitted who has been in attendance at another law school and is ineligible, because of **poor scholarship, to return to that school.**

Students intending to attend summer school sessions at other law schools and desiring to use credits obtained at such schools in their course for the degree of Bachelor of Laws at this Law School, must first have the courses they wish to take approved by the Dean. In no event will credits be recognized in excess of those which might be obtained in a similar period in this School.

#### FOR THE MASTER OF LAWS DEGREE

Candidates for this degree must have completed at the time of their admission not less than two years of work in an approved college, must

have received the degree of Bachelor of Laws or an equivalent degree from an accredited law school, and must have attained in the course for the law degree an average grade equivalent to the grade of *B* in this Law School or must have been admitted by special action of the Dean's Council.

#### UNCLASSIFIED STUDENTS

Persons eligible for admission to regular standing may, in the discretion of the Dean, be admitted as unclassified students, to courses aggregating not more than four hours a week.

#### UNIVERSITY STUDENTS IN LAW

A limited number of persons who cannot qualify as candidates for a degree in Law, but who are over twenty-five years of age and because of their maturity, training, and experience seem qualified to pursue the study of Law, may be admitted to the Division of University and Extension Students as "university" students. Candidates for admission as university students in Law must file written applications, setting forth their qualifications in detail, and letters and certificates to prove the facts stated therein as to their education and experience. Work done by such university students will not be counted toward a degree.

#### REGISTRATION

Before attending classes each student must present himself in person for registration. No student will be registered in the Law School until proper credentials have been filed and approved by the proper officers of the University (see "Admission", above).

Only with the approval of the Dean's Council may a student be permitted to register in the second semester of a year subject before he has completed the attendance in the first semester of that subject.

In all cases where students are permitted to register in one semester of a year subject, they must register for the other semester of that subject not later than one calendar year from the time the attendance in the first semester was completed.

Registration is permitted at the beginning of either semester. Students beginning the study of Law in the second semester, however, may pursue only a limited schedule. If such students complete the course in Contracts and Criminal Law in the second semester and Personal Property and Torts in the following summer session, they may, during the following academic year, take the course of study recommended for second-year late-afternoon students.

Qualified students who are entitled to advanced standing on records from other approved law schools or who have completed courses at this Law School during former periods of attendance, may register at the

Through the generosity of friends of the University a number of loan funds are available to students in the Law School. Among them is the Henry Strong-William A. Maury Scholarship Loan Fund, established by the Henry Strong Educational Foundation in memory of Henry Strong and William A. Maury. Application for loans should be made to the Registrar of the University.

The following prizes are awarded annually in the Law School:

*Ellsworth Prize.*—The Ellsworth Prize of \$25, offered by Mr. Fritz v. Briesen, is awarded to the student doing the best work in the subject of Patent Law Practice. It was awarded in 1931-32 to Leland Leon Chapman.

*Samuel Herrick Prize.*—A prize of \$25, founded by Samuel Herrick, Esq., is awarded annually to that member of the graduating class in the Law School (excepting the winner of the John Bell Larner gold medal), who has attained the highest average grade in the work of the third year. It was awarded in 1931-32 to Louise Frances Feinstein.

*John Bell Larner Prize.*—This prize, established by the bequest of John Bell Larner, consists of a gold medal which is awarded annually to that member of the graduating class in the Law School who attains the highest average grade in the entire course for the degree of Bachelor of Laws. It was awarded in 1931-32 to Jesse Rink Wallace.

*John Ordronaux Prizes.*—These prizes were established in 1909 by the bequest of John Ordronaux. The amount of \$50 is awarded annually to the student in the Law School who has attained the highest average grade in the first-year, full-time, regular course; and \$50 to the student who has attained the highest average grade in the second-year, full-time, regular course. The former was awarded in 1931-32 to Stanton Canfield Peele, jr., and the latter to Henry Dallas Linscott.

#### ORDER OF THE COIF

The Order of the Coif is a national honor society with chapters in thirty-two law schools, the purpose of which is "to foster a spirit of careful study and to mark in a fitting manner those who have attained a high grade of scholarship." The George Washington University Chapter was established in 1926. Students are elected each year from the highest ranking 10 per cent of the graduating class of the Law School.

#### GENERAL REGULATIONS

*Students in the Law School are subject to, and are expected to familiarize themselves with, the general University regulations stated on pages 48-59 and 69-74 of the University catalogue.*

#### AMOUNT OF WORK

A student who takes a majority of his courses in the full-time section, from 9.10 a.m. to 1 p.m., may, with the permission of the Dean, take



work not exceeding fifteen hours a week. For such students the minimum period of attendance is three academic years.

A student who takes a majority of his courses in the afternoon sections or in classes held before 9 a.m., may not register for more than ten hours a week. For such students the minimum period of attendance is four academic years.

The amount of work carried by any student may be restricted when, in the judgment of the Dean, the best interests of the student require it.

#### ATTENDANCE

No student will be allowed credit in any subject unless he has been regularly registered and in regular attendance and has done all the work required in the course in that subject.

Absences of 10 per cent or less of the class hours in any given subject do not affect the student's attendance credit. Absences in excess of 25 per cent will make him ineligible for examination or credit in that subject. Absences exceeding 10 but not exceeding 25 per cent in each subject will be totaled from all subjects taken during the academic year, and for each fifteen hours of excess absences thus shown, the year's credit obtained by the student shall be reduced by one semester-hour. Lateness in registration shall count as absence. Credit for attendance shall begin with the date of approval of registration by the Comptroller's Office.

#### EFFECT OF NONRESIDENCE

Candidates absent from residence for more than two successive semesters may reenter and continue their work only under the rules and regulations in force at the time of their return. The Dean's Council, however, may permit such students to continue their work under the entrance requirements in force at the time they were admitted to the School.

#### GRADES

The grade of a student in each subject is indicated by the letters *P* (55), pass, or *F*, (below 55), failed. The meaning of these grades is as follows:

*P*, pass, means that the work has been successfully completed and full credit given for the subject.

*F*, failed, means that the work in the subject has been a failure and that no credit will be given. To obtain credit the student must repeat the subject; but a student who, in the work of the year, has received a grade of *F* in one subject only and obtained a general average of *C*, may take the next regular examination in that subject, and if on such reexamination he attains the grade of *C* or better, he will be given a grade of *D* (60) in the subject.



At the end of each academic year each student is given an average numerical grade for his work for the year. These numerical grades rank as follows: *A* (85-100), excellent; *B* (75-84), very good; *C* (65-74), good; *D* (60-64), poor; *U* (below 60), unsatisfactory.

#### EXAMINATIONS

Written examinations are held at the close of the first semester in subjects which are then completed and at the close of the second semester in all other subjects. All students are required to take the regular examinations in the subjects pursued, unless excused by the Dean. A student who, with the consent of the Dean, does not take the final examination in a subject with the class in which he is enrolled, may take the next regular examination given in the subject.

No student shall be given an examination in, nor permitted to receive credit in, less than an entire subject. In any case where a student is permitted to register for one semester only of a year subject, he shall not take the examination in that subject until the other semester has been completed. If no regular examination in that subject is scheduled at the time the other semester is completed, then the student shall not be given a special examination but shall be required to take the next regular examination.

No special examinations will be given; except, that upon written application to the Dean's Council, showing sufficient cause, a candidate for a degree at a convocation before the next regular examination, if he would be entitled to take a postponed examination, may, in the discretion of the Dean's Council, be given a special examination not less than sixty days after the one which he failed to take.

#### CLASSIFICATION OF STUDENTS

Students are divided into classes on the completion of semester-hours of credit as follows: first year, to twenty-seven; second year, twenty-eight to fifty-five; third year, fifty-six or more.

#### ELIGIBILITY FOR STUDENT ACTIVITIES

In order to be eligible to represent the University in any intercollegiate nonathletic activity a student must be a regularly enrolled candidate for a degree, registered for at least nine hours, and not on probation. In order to participate in other student activities a student must be registered for at least two courses and not on probation.

A detailed statement of the regulations governing participation in intercollegiate athletic contests may be secured from the Secretary of the Faculties.

Before a student may participate in any activity he must be certified as eligible by the Registrar of the University. The Faculty adviser in

charge of each activity shall submit to the Registrar a list of all student candidates for participation in that activity. For the purpose of determining eligibility under these rules, a student's quality-point index will be calculated at the end of each semester, irrespective of the amount of work carried.

### STUDENT LIFE

#### LIVING ACCOMMODATIONS

The George Washington University is an urban institution. It maintains no dormitories. For the benefit of nonresident students registers of rooms which have been inspected and approved are kept in the office of the Director of Women's Personnel Guidance, where inquiries in respect to housing facilities should be addressed. Satisfactory accommodations can be found near the University.

Single rooms usually range in price from \$15 to \$25 a month, and double from \$10 to \$20 a month a person. Rooms with board, including breakfast and dinner, cost from \$35 to \$45 a month a person.

It is advisable for students to reach the University two or three days before the opening of the term in order that they may become established in satisfactory living quarters before class work begins. Renting by mail is unsatisfactory. Lists of houses will be mailed on request, but students are advised to make personal inspection before engaging rooms.

#### WOMEN STUDENTS

All women students under twenty-three years of age must have their residences approved by the Director of Women's Personnel Guidance, unless they are living with family or relatives. Registration is not complete until such approval is given.

#### APPOINTMENT BUREAU

The Appointment Bureau is maintained to assist graduates and students in finding positions for which their college work has prepared them, and to cooperate with employers who wish to fill vacancies. Enrolment is open to graduates and students without charge for placement.

For further information address the Placement Secretary, The George Washington University, Washington, D. C.

#### STUDENT EMPLOYMENT

An employment service is operated to assist self-supporting students in finding employment. The University offers every possible assistance, but success in self-support depends upon the student himself.

Prospective students who expect to earn any part of their expenses and who do not have definite appointment to positions before coming to Wash-

ington, should have the means of support for at least one semester. A minimum budget of \$100 a month is recommended.

Many out-of-town students secure positions in the Departments of the Government in Washington by taking the United States Civil Service examinations in their home States. The hours of employment permit them to pursue a college course in the late afternoon.

#### HEALTH ADMINISTRATION

The payment of the University fee entitles students to health services hereinafter described. Through reports from the students and University officials, the University attempts to keep informed as to all cases of illness among its students.

Medical privileges include: (1) the physical examination of all students entering from secondary schools; (2) three visits by the University physician or surgeon, office or home, in any one illness, exclusive of a specialist, surgical operation, laboratory, or X-ray examination; (3) hospitalization, including board, medicine, and nursing in the University Hospital for not more than two weeks during a school term—the necessity to be determined by the Director of Health Administration. The duration of hospitalization period (maximum, two weeks) is also to be determined by the Director of Health Administration.

This medical benefit does not include treatment for illness or disability incurred previous to the University term or prior to payment of the University registration fee.

Students are allowed, if they so desire, to engage physicians and nurses of their own choice, but when they do so they will be responsible for the fees charged.

Rules: (1) The Director of Health Administration is empowered to limit or deny the medical benefits where, in his discretion, a student has, by his misconduct or breach of the rules of the University, made himself ineligible; (2) the Director of Health Administration has authority to determine the necessity and length of hospitalization; (3) students who have severed their connection with the University are ineligible for medical benefits; (4) students intending to train for athletic teams are required to pass a careful examination at the beginning of each semester; (5) the above regulations apply during the Summer Sessions of the University.

#### COURSES OF INSTRUCTION

The courses of instruction in Law are listed on pages 23-27.

#### THE DEGREES

Upon the satisfactory completion of the requirements of the Law School, the degree of Bachelor of Laws or Master of Laws is conferred.



## REQUIREMENTS FOR THE BACHELOR OF LAWS DEGREE

To be recommended for a degree a student must satisfy the admission, residence, and scholarship requirements and must complete the prescribed number of credits and required subjects. *Particular attention is called to the statement of graduation requirements on pages 71-73 of the University catalogue.*

## RESIDENCE

The residence requirement for this degree is three academic years for full-time students or four academic years for students with limited schedules. A year's attendance in the late afternoon classes for students with limited schedules is counted as residence for three fourths of a year. In the case of students admitted with advanced standing, at least one full year of this residence requirement must be spent in The George Washington University.

A student who at the end of any regular period of residence—the first semester, the second semester, or the summer session—has completed subjects which equal in semester-hours the total number of semester-hours required for the degree for which he is a candidate, but has failed to complete the full residence requirements for that degree, must be in residence during additional periods sufficient to satisfy completely the residence requirements. In all such cases the student must be in residence during the entire period and must satisfy the attendance requirements of, and pass the examination in, at least one subject.

## CURRICULUM REQUIREMENTS

The curriculum leading to the degree of Bachelor of Laws is set forth under the first, second, and third years of the "Plan of Study", below. The successful completion of the courses there listed is required for the degree. The credit requirement is a minimum of eighty semester-hours.

## COMBINED ARTS AND LAW CURRICULUM

The University will confer the degree of Bachelor of Arts upon the completion of three years of college work and the first year in the Law School. In order to be certified to the authorities of Columbian College as having satisfactorily completed one year of law work, the student must have completed twenty-eight semester-hours in the Law School, with an average of 65 per cent or better (see the Columbian College announcement, pages 100-1 of the University catalogue). The Bachelor of Laws degree will be conferred upon the completion of the remainder of the work for that degree.

## COMBINED ENGINEERING AND LAW CURRICULUM

The University will confer the degree of Bachelor of Science in Engineering upon the completion of the first three years of the curriculum



for that degree in the School of Engineering and the first year in the Law School (see the School of Engineering announcement, page 151 of the University catalogue). The Bachelor of Laws degree will be conferred upon the completion of the remainder of the work for that degree.

#### SCHOLARSHIP

The eighty semester-hours of work required for the degree must be completed with an average grade of at least *C*.

Unless a student in each academic year receives a grade above *F* in at least three fourths of the semester-hours for which he is registered and obtains a numerical average grade of not less than 60, he will be denied registration in the future; but upon written application to the Committee on Reinstatement, showing sufficient cause, and after a personal hearing, if he so desires, he may be reinstated on such conditions as the committee may impose.

#### HONORS

The degree of Bachelor of Laws "with distinction" will be awarded students who obtain an average grade of *A*.

#### REQUIREMENTS FOR THE MASTER OF LAWS DEGREE

Candidates for the degree of Master of Laws must complete twenty semester-hours of work in subjects not counted toward the degree of Bachelor of Laws.

This degree will not be conferred until one academic year after the candidate receives the degree of Bachelor of Laws. All requirements must be completed in not exceeding two years after registration for the work for the degree.

#### SCHOLARSHIP

Courses taken for the Master's degree must be completed with an average grade of not less than *B*.

#### REQUIRED SUBJECTS

Trusts, Conflict of Laws, and Constitutional Law must be included in the course for the degree of Master of Laws if not previously taken. No first-year subject and no second-year required subject may be counted toward this degree.

#### PLAN OF STUDY

The subject matter is so related in the curriculum as to give an understanding of the relations between subjects. For this reason the subjects must be taken in the order provided for in the plan of instruction.

A student who has not completed all the first-year subjects may be permitted to register for a limited number of second-year subjects for

which he may be qualified. In no case, however, will this be permitted unless the student's program for the year includes the uncompleted, required, first-year subjects.

In no case will a student who is a candidate for a degree in Law be permitted to take any subjects listed as third-year subjects unless he has completed all the required subjects of the first year and at least three required subjects of the second year.

Qualified third-year students may elect a limited number of graduate subjects and count them toward the degree of Bachelor of Laws.

Candidates for the degree of Master of Laws may elect and count toward that degree third-year subjects not already counted toward the degree of Bachelor of Laws.

First Year	Sem. hrs.	Third Year	Sem hrs
Civil Procedure.....	4	Constitutional Law.....	4
Contracts.....	7	Corporations.....	4
Criminal Law and Procedure.....	3	Moot Court or Patent Moot Court.....	4
Personal Property.....	4	Electives*.....	12
Real Property I.....	4		
Torts.....	6	Total.....	24
Total.....	28		
Second Year		Master of Laws	
Bills and Notes.....	4	Administrative Law.....	2
Equity II.....	4	History of Law.....	4
Evidence.....	4	International Law.....	4
Real Property II.....	4	Interstate Commerce Law.....	2
Electives*.....	12	Taxation.....	4
		Trade Regulation.....	4
Total.....	28	Total.....	20

#### HOURS OF INSTRUCTION

The regular course for full-time students is given from 9.10 a.m. to 1 p.m. Employed students may take the regular course in the classes held at 5.10 and 6.10 p.m.

For catalogues, application blanks, and further information, address the Dean of the Law School, The George Washington University, Stockton Hall, Washington, D. C.

\* Courses from which electives may be selected are as follows: for the second year, Agency (4), Domestic Relations (2), Insurance (2), Quasi-contracts (2), Sales (4); for the third year, Admiralty (2), Bankruptcy (2), Conflict of Laws (4), Equity III (2), Federal Procedure (2), Labor Law (2), Mortgages (2), Municipal Corporations (2), Organization of Corporations (1), Partnership (2), Patent Law (4), Public Utilities (2), Real Property III (2), Suretyship (2), Trusts (4). Figures in parentheses indicate the number of semester-hours of credit.



## COURSES OF INSTRUCTION IN LAW

The courses of instruction listed below are subject to some slight change. The University reserves the right to withdraw any course announced.

The number which precedes the name of a course indicates the semester in which that course is offered. An odd number indicates that the course is offered in the first semester; an even number, that it is offered in the second semester; and a double number (e.g., 157-58), that it begins in the first semester and continues in the second.

First-year courses are numbered from 101 to 150; second-year courses, from 151 to 200; third-year courses, from 201 to 250; and graduate courses, from 251 to 300.

The number of semester-hours of credit given for the satisfactory completion of a course is indicated in parentheses after the name of the course. Thus, a year course giving two hours of credit each semester is marked (2 2), and a semester course giving two hours of credit is marked (2).

### FIRST-YEAR SUBJECTS

- 101-2 *Civil Procedure* (2-2) Clephane, Hunter  
Section A (Sunderland's Cases, 2d ed.; Keigwin's Cases on Equity Pleading), first semester, Mon. and Thurs., 12.10 p.m.; second semester, Mon. and Fri., 12.10 p.m. Section B (Shipman on Common Law Pleading; Clephane on Equity Pleading), Tues., 5.10 and 6.10 p.m.
- 111-12 *Contracts* (4-3) Spaulding, Moll, McIntire  
Williston's Cases on Contracts, 3d ed. Section A, first semester, Mon., 10.10 a.m., and Tues., Wed., and Fri., 9.10 a.m.; second semester, Mon., Thurs., and Fri., 10.10 a.m. Section B, first semester, Mon. and Thurs., 5.10 and 6.10 p.m.; second semester, Mon., 5.10 p.m., and Thurs., 5.10 and 6.10 p.m. Special, second semester, Tues. and Wed., 5.10 and 6.10 p.m.
- 124 *Criminal Law and Procedure* (3) Hunter  
Case book to be announced. Section A, Mon., Wed., and Fri., 9.10 a.m. Section B, Mon., 6.10 p.m., and Fri., 5.10 and 6.10 p.m.
- 133-34 *Personal Property* (2-2) Fryer, Benson  
Bigelow's Cases on Personal Property, 2d ed., 1931; materials on the study of law; remedies and the term "property"; Fryer's Readings on Personal Property. Section A, first semester, Tues., 11.10 a.m., and Fri., 10.10 a.m.; second semester, Tues. and Thurs., 9.10 a.m. Section B, Tues., 5.10 and 6.10 p.m.



Summer Sessions 1933 (4)—daily except Sat., 5.10 and 6.10 p.m., first term (Benson).

- 137-38 *Real Property I* (2-2) Benson  
Fraser's Cases on Property, vol. 1. Section A, first semester, Wed. and Thurs., 11.10 a.m.; second semester, Tues. and Wed., 11.10 a.m. Section B, Wed., 5.10 and 6.10 p.m.

- 141-42 *Torts* (4-2) Collier, Hunter  
Beale's edition of Ames and Smith's Cases; Bohlen's Cases, 3d ed. Section A, first semester, Mon. and Thurs., 9.10 a.m., and Tues. and Fri., 12.10 p.m.; second semester, Tues. and Thurs., 12.10 p.m. Section B, first semester, Wed. and Fri., 5.10 and 6.10 p.m.; second semester, Wed., 5.10 and 6.10 p.m.

Summer Sessions 1933 (4)—daily except Sat., 5.10 and 6.10 p.m., second term (Collier).

#### SECOND-YEAR SUBJECTS

- 151 *Agency* (4) Fryer  
Mechem's Cases on Agency, 2d ed., by Seavey. Mon., 11.10 a.m., Wed., 9.10 a.m., and Thurs. and Fri., 12.10 p.m.

Summer Sessions 1933 (4)—daily except Sat., 5.10 and 6.10 p.m., second term

- 163-64 *Bills and Notes* (2-2) Oppenheim  
Britton's Cases on Bills and Notes, 2d ed. Section A, first semester, Mon. and Tues., 12.10 p.m.; second semester, Mon. and Fri., 12.10 p.m. Section B, Mon., 5.10 and 6.10 p.m.

Summer Sessions 1933 (4)—daily except Sat., 5.10 and 6.10 p.m., first term.

- 170 *Domestic Relations* (2) Hunter  
Madden's Cases on Domestic Relations. Summer Sessions 1933—Mon. and Thurs., 5.10 and 6.10 p.m., and Wed., 6.10 p.m., first term.

- 171-72 *Equity II* (2-2) Spaulding, Moll  
Ames' Cases on Equity Jurisprudence, vol. 1. Section A, second semester, Mon. and Wed., 11.10 a.m., and Tues. and Thurs., 12.10 p.m. Section B, Fri., 5.10 and 6.10 p.m.

- 177-78 *Evidence* (2-2) Latimer, Fryer  
Hinton's Cases on Evidence, 2d ed., 1931. Section A, Mon. and Thurs., 9.10 a.m. Section B, Mon., 5.10 and 6.10 p.m.

- 185 *Quasi-contracts* (2) Van Vleck  
Thurston's Cases on Quasi-contracts. Summer Sessions 1933—Tues. and Fri., 5.10 and 6.10 p.m., and Wed., 5.10 p.m., first term.

- 187-88 *Real Property II* (2-2) Benson  
Kirkwood's Cases on Conveyances; Mechem and Atkinson's Cases on Wills and Administration. Section A, first semester, Tues. and Fri., 9.10 a.m.; second semester, Tues. and Thurs., 9.10 a.m. Section B, Thurs., 5.10 and 6.10 p.m.
- 191-92 *Sales* (2-2) Oppenheim  
Williston and McCurdy's Cases, 1932. Section A, first semester, Tues., 10.10 a.m., and Thurs., 11.10 a.m.; second semester, Tues., 11.10 a.m., and Fri., 9.10 a.m. Section B, Thurs., 5.10 and 6.10 p.m.

## THIRD-YEAR SUBJECTS

- 204 *Bankruptcy* (2) Brandenburg  
The Bankruptcy Act. Tues., 5.10 and 6.10 p.m.
- 205-6 *Conflict of Laws* (2-2) Van Vleck  
Beale's Cases, 2d ed. Section A, Mon. and Tues., 10.10 a.m. Section B, Tues., 5.10 and 6.10 p.m.
- 209-10 *Constitutional Law* (2-2) Collier  
Hall's Cases on Constitutional Law. Section A, first semester, Wed., 11.10 a.m., and Fri., 10.10 a.m.; second semester, Thurs. and Fri., 10.10 a.m. Section B, Tues., 5.10 and 6.10 p.m.
- 213-14 *Corporations* (2-2) Davison  
Case book to be announced. Section A, first semester, Mon., 11.10 a.m., and Thurs., 10.10 a.m.; second semester, Mon. and Fri., 11.10 a.m. Section B, Fri., 5.10 and 6.10 p.m.  
Summer Sessions 1933 (4)—daily except Sat., 5.10 and 6.10 p.m., second term.
- 215-16 *Current Decisions and Legislation* (2-2) McIntire  
Required of members of the student editorial board of *The George Washington Law Review*. Hours to be arranged.
- 219 *Equity* (2) Hunter  
(Not offered in 1933-34.)  
Summer Sessions 1933 (2)—daily except Mon., 7.40 a.m., first term.
- 219 *Federal Procedure* (2) Brandenburg  
Hopkins' Judicial Code, 3d ed. Tues., 5.10 and 6.10 p.m.
- 221 *Insurance* (2) McIntire  
Case book to be announced. Fri., 5.10 and 6.10 p.m.
- 223 *Legal Bibliography and Briefmaking* (1) Miller  
Mon., 6.10 p.m.

- 225-26 *Moot Court* (2-2) Clephane, Cox, Hall, Hunter  
Prerequisite: Law 101-2 and 177-78. Section A, Sat., 9.10 to 11 a.m. Section B, Wed., 5.10 and 6.10 p.m.
- 228 *Mortgages* (2) Benson  
Case book to be announced. Fri., 5.10 and 6.10 p.m.
- 230 *Municipal Corporations* (2) McIntire  
Case book to be announced. Mon., 5.10 and 6.10 p.m.
- 231 *Organization of Corporations* (1) Clephane  
Clephane on Organization and Management of Corporations. Mon., 5.10 p.m.
- 233 *Partnership* (2) Davison  
Crane and McGruder's Cases, shorter selection, 1930. Section A, Wed., 10.10 a.m., and Fri., 11.10 a.m. Section B, Thurs., 5.10 and 6.10 p.m.
- 235-36 *Patent Moot Court* (2-2) Hudson  
This course may be elected instead of Law 225-26 to satisfy the Moot Court requirement. Both subjects may not be counted toward a degree. Wed., 5.10 and 6.10 p.m.
- 237-38 *Patent Law* (2-2) Sutton  
Substantive patent law and patent-office practice. Mon., 5.10 and 6.10 p.m.
- 240 *Real Property III* (2) Moll  
Wed., 5.10 and 6.10 p.m.
- 242 *Suretyship* (2) Fryer  
Campbell's Cases. Fri., 5.10 and 6.10 p.m. (Not offered in 1933-34.)
- 245-46 *Trusts* (2-2) Moll  
Scott's Cases on Trusts, 2d ed. Section A, first semester, Tues. and Thurs., 11.10 a.m.; second semester, Tues. and Wed., 11.10 a.m. Section B, Thurs., 5.10 and 6.10 p.m.

## GRADUATE SUBJECTS

- 252 *Administrative Law* (2) Davison  
Frankfurter and Davison's Cases on Administrative Law. Section A, Wed., 10.10 a.m., and Thurs., 11.10 a.m. Section B, Thurs., 5.10 and 6.10 p.m.
- 253 *Admiralty* (2) Alden  
Sayre's Cases on Admiralty. Wed., 5.10 and 6.10 p.m.
- 255-56 *History of Law* (2-2) Benson  
Plucknett, *A Concise History of the Common Law*; Benson, *History of English Law Notebook*. Mon., 5.10 and 6.10 p.m.

- 257-58 *International Law* (2-2) Murdock  
Hudson's Cases on International Law. Thurs., 5.10 and 6.10  
p.m.
- 260 *Interstate Commerce Law* (2) Davison  
Sharfman, *Interstate Commerce Commission*, vol. 1, and assigned  
cases. Mon., 5.10 and 6.10 p.m.
- 261 *Labor Law* (2) Spaulding  
(Not offered in 1933-34.)
- 263 *Public Utilities* (2) Davison  
Welch, et al., Cases on Public-Utility Regulation. Mon.,  
5.10 and 6.10 p.m.
- 265-66 *Taxation* (2-2) Collier  
Magill and Maguire's Cases. Fri., 5.10 and 6.10 p.m.
- 269-70 *Trade Regulation* (2-2) Oppenheim  
Case book to be announced. Wed., 5.10 and 6.10 p.m.





# DEGREES CONFERRED

1932-33

## BACHELOR OF LAWS

JUNE 15, 1932

Amidur, Leon H. A.B. 1928, M.F. 1922, Columbia University	N.Y.	Dudley, Donald Goodnow A.B. 1928, Swarthmore College	D.C.
Amerman, George Monroe A.B. 1927, Dickinson College	Pa.	Dulles, John Foster (as of June 1942)	D.C.
Bailey, Louis Henry Ch.B. 1927, Rensselaer Polytechnic Institute	N.Y.	Dutton, Lillian Bertha A.B. 1927, The George Washington University	D.C.
Bassett, John Earl B.A., William Webb A.B. 1924, Washington and Lee University	D.C. D.C.	Earnest, James Marvin B.S. 1927, Alabama Polytechnic Institute	Ala.
Beardsley, Charles Harrison B.S. in Eng. 1926, University of Michigan	Mich.	Edwards, William Griffith, Jr. B.S. in E.E. 1927, University of Colorado	Colo.
Beasley, Albert Ferrell Becker, William Steaver A.B. 1923, The George Washington University	Ala. Ohio	A.B. 1926, University of Colorado	
Beelar, Donald Casper A.B. 1928, University of Oregon	Oreg.	Epstein, Rebecca B.S. 1926, College of the City of New York	N.Y.
Berry, Charles Oscar Bismeyer, Harold (With distinction)	D.C. Calif.	Feinstein, Louise Frances A.B. 1928, The George Washington University	D.C.
Graduate 1925, U. S. Naval Academy		Finch, Eleanor Harrison A.B. 1926, Liberty College	Md.
Bohn, Theodore Roosevelt B.S. 1928, University of Utah	Utah	Fitzsimmons, Richard Raymond B.S. 1924, Carnegie Institute of Technology	Pa.
Booth, August Marshall Boyd, Helen Marie A.B. 1927, University of Wisconsin	Okla. D.C.	Friedman, Melvin Hillard B.S. in E.E. 1928, The George Washington University	D.C.
Boyer, James Barnes B.S. in E.E. 1928, Pennsylvania State College	D.C.	Gasch, Oliver A.B. 1928, Princeton University	D.C.
Brown, Lucy Williams Brown, Mary Agnes A.B. 1924, The George Washington University	D.C. N.H.	Grobb, Katherine Mary A.B. 1928, Smith College	Ala.
Buchler, Milton B.S. in M.E. 1926, University of Michigan	D.C.	Geller, James Gordon Hard, Douglas L. (With distinction)	Ill. Nev.
Cady, John Parmelee Graduate 1922, U. S. Naval Academy	D.C.	Hofman, Catherine Ehrmauttraut Ho, Lee, William Nathaniel	D.C. Idaho
Caplan, Max A.B. 1930, The George Washington University	D.C.	Holcher, David Kay Houghton, Joseph York B.S. 1926, Massachusetts Institute of Technology	Utah Md.
Carpenter, Samuel Raymond Colladay, David Clement A.B. 1926, Princeton University	Utah D.C.	Hunt, Margaret Clarke A.B. 1925, The George Washington University	D.C.
Conner, Bernard Wallace A.B. 1926, The George Washington University	D.C.	Jackson, Charles Horatio, jr. A.B. 1926, The George Washington University	Tex.
Conger, George William Coutson, Jessamine A.B. 1928, Bucknell University	La. D.C.	Johnson, Ervin George B.S. 1927, University of California	Calif.
A.M. 1926, University of Chicago		Johnson, Robert Lee Graduate 1922, U. S. Naval Academy	Ga.
Crum, Harry Watson B.S. 1924, Princeton University	Pa.	Lacey, Trammell Calhoun A.B. 1927, University of Texas	Tex.
Cunningham, John H. deBourza, Daniel Arthur Dubin, Bernard	Iowa Va. N.J.	Langshaw, Gertrude Layton, Philip Raymond A.B. 1931, The George Washington University	Mich. Colo.
		LeGates, Eber Thomson B.S. in E.E. 1928, University of Delaware	Del.

MacGill, Winfield Scott, jr. (With distinction) B.S. 1928, University of Virginia	Md.	Scoredos, Chris Gary A.B. 1925, The George Washington University	D.C.
Martsson, Carvel (With distinction) B.S. 1928, University of Utah	Utah	Shaw, Richard Waring Shelton, Charles Latimer B.S. 1928, University of Maryland	Kans. Md.
McKay, David Lawrence A.B. 1926, University of Utah	Utah	Simmons, Marcellus Culmer A.B. 1928, The George Washington University	Utah
Miller, James Harold A.B. 1929, Juniata College	Pa.	Sitz, Walter Hoersch Graduate 1916, U. S. Naval Academy M.S. 1922, Massachusetts Institute of Technology	Iowa
Miller, Robert Saunders A.B. 1928, University of Michigan	Ohio	Smith, Frank DeLarme, jr. B.S. in M.E. 1925, Harvard University	D.C.
Morris, John Carless E.E. 1926, Cornell University	N.Y.	Smith, Jesse Robinson Smith, Melvin Clyde A.B. 1927, West Virginia University	Utah Va.
Morris, Rayson Pasco B.S. in E.E. 1928, University of Idaho	Idaho	Stearns, Robert Maynard Steenrod, Virginia Ruth Sterritt, John Calhoun M.E. 1928, Cornell University	Iowa Ohio Pa.
Morse, Excellence Leah A.B. 1929, University of Vermont B.S. 1922, M.S. 1921, Massachusetts Institute of Technology	Vt.	Taylor, Alfred Lindsay E.E. 1923, Rensselaer Polytechnic Institute	N.Y.
Murphy, Harold Warner Nevius, Richard David A.B. 1930, The George Washington University	Ind. D.C.	Taylor, William Morris Terry, George McGrew Troy, F. Gerald B.S. in E.E. 1927, Clarkson College of Technology	Calif. Okla. Va.
Norris, Henry Gladden Nutter, Carl Joseph A.B. 1911, West Virginia University	La. W.Va.	Tweedale, Ralph Landon Twining, Merrill Barber Graduate 1921, U. S. Naval Academy	N.Y. Wis.
Orbison, Robert Henry A.B. 1930, Butler University	Ind.	Van Dyke, Lawrence Adelbert, jr. Vernon, Clinton DeWitt von Dachenhausen, George Alexander A.B. 1929, The George Washington University	Utah Utah D.C.
Parker, Albert Marcus B.S. in M.E. 1928, University of Maine	N.J.	Wallace, Jesse Rink (With distinction) Graduate 1922, U. S. Naval Academy	Ill.
Parsons, Verna Lenore A.B. 1931, The George Washington University	D.C.	Wallenstein, Sidney B.S. in Ch.E. 1928, Case School of Applied Science	Ohio
Parsons, William Herbert Patterson, Kirby Williams A.B. 1928, Drury College	D.C. Mo.	Weeks, Charles Everett Westby, George Newton B.S. 1927, University of Washington	S.Dak. Wash.
Pecoraro, Leone A.B. 1928, A.M. 1929, Columbia University	N.Y.	Wight, Donald Miller M.E. 1923, Lehigh University	D.C.
Pellecchia, Pellegrina James, jr. Rees, William Chevers Rinehart, Theodore Robinson, William Junius	N.J. Idaho Okla. D.C.	Wilkerson, Thomas Nesbitt, jr. Wilkins, Gordon Armstrong A.B. 1926, University of Richmond	N.Mex. Va.
Rosenberry, Wellington, jr. A.B. 1929, Pennsylvania State College	Pa.	Yaffer, Simon E.E. 1925, Rensselaer Polytechnic Institute	N.Y.
Rosenburg, Everett Reynolds E.E. 1924, Rensselaer Polytechnic Institute	N.Y.	Young, Truman Richards Younger, Donald	Utah Calif.
Rosoff, Leo Rutter, Janet Goodwin A.B. 1930, Cornell University	Mass. D.C.		
Schrader, Milward Cecil Schulz, Hugo O. M.E. 1927, Stevens Institute of Technology	Kans. N.J.		

## OCTOBER 13, 1932

Armstrong, Robert Harmon A.B. 1930, West Virginia University	W.Va.	Jackson, John Wingfield (With distinction) B.S. in Econ. 1928, University of Pennsylvania	D.C.
Blair, John Alexander M.E. 1928, Cornell University	Okla.	Lindquist, Willis John Logsdon, DeEarle Monroe	Minn. Ind.
Cluster, Loren Lee Coffin, Seth Charles B.S. 1926, Indiana University	Ill. Ind.	Kampe, Albert Henry B.S. in C.E. 1924, The George Washington University	D.C.
Elvove, Kady Fowler, Robert Edward E.E. 1926, Cornell University	Ky. N.Y.	Mann, James DeValse A.B. 1928, Birmingham Southern College	Ala.
Hoage, Alden Warner A.B. 1928, University of Maryland	Md.	Mantell, Leon Michael	N.Y.

# The Law School

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McElowney, Grace Cornelia A.B. 1918, Smith College	D.C.	Sherwood, William Earl B.S. in M.E. 1927, University of Kentucky	Ky.
McGinn, Burton Allen A.B. 1921, University of Maryland	D.C.	Simons, Macon McCorkle Tremann, Rawleigh Lewis	N.C.
Miller, Florian George B.S. in M.E. 1927, University of Michigan	Pa.	A.B. 1921, Guilford College	N.C.
Olson, Frank Montague Perry, Albert Walter	Utah	A.M. 1920, University of North Carolina	
Patterson, George Daniel B.B.A. 1928, Emory University	Fla.	Wise, William Harvey	D.C.
Seaton, Warren A.B. 1927, State University of Iowa	Ala.	A.B. 1910, The George Washington University	
A.M. 1927, Harvard University	Iowa		

## FEBRUARY 22, 1933

Adair, Edwin Ross A.B. 1928, Hilldale College	Ind.	Jackson, Arthur Rulon Langford, George Frank	Utah
Barnes, Stuart Knowlton A.B. 1927, University of Utah	Utah	M.E. 1927, Stevens Institute of Technology	N.Y.
Black, Henry Frank P.S. 1928, Norwegian University	Vt.	McClelland, Casper Shepard	Pa.
Brooks, Albert Edwin, jr. Cannon, Edward Lee	Tex.	Meindl, Gerald James	Ore.
A.B. 1926, Duke University	N.C.	B.S. 1929, University of Oregon	
Coatsworth, John Wallace A.B. 1928, Dakota Wesleyan University	S.Dak.	Rohrer, Carl Pepper	Va.
Crainwell, Fred Paskell B.S. 1910, University of Illinois	Ill.	A.B. 1931, The George Washington University	
Freedman, Cecil Lewis A.B. 1927, E.E. 1928, Stanford University	D.C.	Seegmiller, Keith Lorraine B.S. 1932, Brigham Young University	Utah
Gillespie, Frank Smith Helmke, Helen Margaret	Ill.	Shapiro, Arthur	D.C.
I'Anson, Nannie Armistead A.B. 1910, The George Washington University	Calif.	B.Eng. 1921, Johns Hopkins University	Neb.
	D.C.	Triletv, O. Edward A.B. 1928, The George Washington University	
		Van Meter, Kenny Chambers, jr.	W.Va.
		Wainwright, Mildred Rowena	Ill.

## MASTER OF LAWS

### OCTOBER 13, 1932

Petrot, Claude Westcott A.B. 1911, Ohio State University	Ohio
E.L.B. 1910, Western Reserve University	

### FEBRUARY 22, 1933

Byington, Moses Brownlow, jr. Graduate 1918, U.S. Naval Academy	Tenn.
L.L.B. 1927, with distinction, The George Washington University	



*Coatsworth, John W. (Law III) A.B. 1928, Dakota Wesleyan University	S.Dak.	Daisley, Gordon Walford (Law III) Graduate 1923, U. S. Naval Academy	D.C.
Coble, Jerome Francis (Law I)	N.Y.	Davis, Arthur Marshall (Law III)	Ariz.
Coble, Eugene J. (Law I)	Kans.	Davis, Cresson Orion (Law I)	D.C.
Cockrill, Harry Howard (Law III) B.S. 1931, University of Virginia	Ark.	A.B. 1931, The George Washington University	
Coe, Bryan (Law II) A.B. 1928, The George Washington University	D.C.	Davis, Ransom Kirby (Law III) Graduate 1920, U. S. Naval Academy M.S. 1927, Harvard University	Fla.
†Coffelt, George Quinton (Law I) A.B. 1930, Arkansas State Teachers College	Ark.	Davis, Thomas Joel (Law I)	Ga.
Coffin, Lewis Charles (Law II) A.B. 1930, Bowdoin College	Me.	DeLand, Allan Stanley (Law I) B.S. 1932, Washington and Lee University	Md.
†Cohen, Bernard (Law III)	Va.	Dell, Julian Peter, jr. (Law II) Ph.B. 1929, Emory University	Ga.
Cohen, Joseph (Law I)	D.C.	DeMoll, Theodore Otto (Law I)	D.C.
Cohn, Benjamin Emanuel (Law II) B.S. 1918, University of Illinois	Ill.	Dennis, Milton L. (Law II) A.B. 1931, The George Washington University	D.C.
Colelowah, Oswald Symister (Law I) Graduate 1920, U. S. Naval Academy	Pa.	DeVeau, Joseph Harold (Law I) B.S. 1931, University of Pennsylvania	Md.
Conkey, John G. (Law I)	D.C.	Dibble, Lawrence Donald (Law I) B.S. 1928, Dickinson College	Pa.
Connors, Joseph Aloysius, jr. (Law I)	D.C.	Dickerman, George Lyman (Law III) B.S. 1927, Middlebury College	Conn.
Coombs, I. Wendell (Law II) A.B. 1926, University of Utah	Utah	Dickson, Elizabeth Loree (Law II) B.S. 1924, Wilson College	Md.
Corwin, Harold Benn (Law II)	Mich.	Dietz, John Edward (Law II) A.B. 1931, The George Washington University	D.C.
Cosdon, Louis (Law II) A.B. 1932, The George Washington University	D.C.	Dodd, Halbert William (Law II) B.S. 1930, Northwestern University	Ill.
†Coulston, Clemency King (Law III) Courtneve, William Hasell (Law III) A.B. 1927, Vanderbilt University A.M. 1928, Stanford University	D.C. La. La.	Dodds, Edward Shaddick (Law I) Doering, Carroll Johnson (Law I) Dondero, Joseph George (Law I) Dorson, Charles William (Law II) A.B. 1931, University of Illinois	D.C. Tex. D.C. Ill.
†Cowgill, Harold Guy (Law I) Cowley, Charles Gloyd (Law III) B.S. 1928, Utah State Agricultural College	Ill. Utah	Downie, Blake (Law II) A.B. 1931, Arkansas College	Ark.
Cox, Robert Alexander (Law I) A.B. 1931, University of Tennessee	Tenn.	Drowns, Allen Crawford (Law III)	Va.
Cragun, John Wiley (Law II) A.B. 1932, The George Washington University	Utah	Drummond, Folsom Ewart (Law III) B.S. in Ch.E. 1924, Ohio State University	D.C.
Crane, Willard Steven (Law III) B.S. in C.E. 1913, Carnegie Institute of Technology	Ill.	†Drury, George Ignatius (Law I)	Ky.
Creyke, Geoffrev, jr. (Law II) A.B. 1932, The George Washington University	D.C.	Duckworth, Raymond Francis (Law I)	D.C.
*Cromwell, Frederick Paskell (Law III) B.S. 1930, University of Illinois	Ill.	Dumas, William Lawrence, jr. (Law, LL.M.) A.B. 1920, Davidson College LL.B. 1912, Harvard University	Ala.
Crone, Linden Edgar (Law III) B.S. 1930, University of Utah	Utah	†Duncan, Willis Singleton (Law I) A.B. 1931, Westminster College	Mo.
Crossetto, Vena Mary (Law II)	Pa.	Durham, Richard Claiborne (Law I)	Va.
Cross, John Walker (Law, LL.M.) B.S. 1924, Kansas State Teachers College	D.C.	Dye, Elden Hobson (Law III)	Utah
I.L.B. 1930, The George Washington University		Dyer, William W., jr. (Law II)	D.C.
†Crouter, Earl Clinton (Law, LL.M.) A.B. 1923, LL.B. 1930, The George Washington University	Wyo.	Eager, Thomas Hayward (Law III) Earle, Julius Richard (Law I) Earle, Robert Lindsay (Law I) A.B. 1930, The George Washington University	Wash. D.C. Wis.
Cuddeback, Nelson Charles (Law II) E.E. 1925, Rensselaer Polytechnic Institute	N.Y.	Fallowitz, Ellis (Law III) A.B. 1930, The George Washington University	D.C.
†Culver, Julian Griggs (Law II) Curry, John Edward (Law I) Graduate 1921, U. S. Naval Academy	Md. Md.	†Edmonds, Lincoln Parker (Law I)	Mass.
†Cuthbertson, Stuart (Law I) A.B. 1925, University of Illinois A.M. 1928, The George Washington University	Ill.	†Edwards, Ivan Reo (Law II) B.S. in M.E. 1920, University of Texas	Tex.
Cutting, Charles Ambrose (Law II) B.S. 1930, University of Maine	Me.	†Edwards, Rowland (Law III) Ph.B. 1931, University of Chicago Efner, Laurence V. (Law I) B.S. in M.E. 1928, Armour Institute of Technology	Kans. Ill.
		Eichler, Bessie Rossmiller (Law II) B.S. 1927, Beloit College	Wis.

Edridge, John Dupree, jr. (Law III) A.B. 1929, University of Arkansas	Ark.	Free, Lloyd Arthur (Law II) B.S. 1910, Princeton University	D.C.
Elgin, Arthur Carpenter (Law II) A.B. 1928, St. John's College	Md.	*Freedman, Cecil Louis (Law III) A.B. 1927, E. E. 1927, Stanford University	D.C.
Elliott, William F. (Law II) B.S. 1910, Georgia School of Technology	Ga.	Friedenson, Julius (Law I) Ph.B. 1910, Yale University	Conn.
Ellis, William Leigh (Law III) A.B. 1929, Hillsdale College	Mich.	Friedman, Maurice (Law II) A.B. 1930, The George Washington University	Conn.
Elison, Elmer Edward (Law II) Fishbein, Ernest J. (Law II)	W.Va.	Fulbright, James William (Law II) A.B. 1925, University of Arkansas A.M. 1931, Oxford University	Ark.
Enyart, Byron K. (Law III) A.B. 1932, The George Washington University	N.Dak. Va.		
Epaminonda, John G. (Law II) Ericksen, Mary Elizabeth (Law II)	N.J. Wash.	Garvey, James Allen (Law I) Gates, Robert M. (Law III)	Va. Iowa
Errienne, Alexander Jeremiah (Law II) E.E. 1925, Rensselaer Polytechnic Institute	N.Y.	Gatley, Howard Prescott, jr. (Law II) Gaylord, Thomas Ackley (Law III) Graduate 1919, U. S. Naval Academy	Md. Mass.
Euliss, Muriel Ione (Law I) B.S. 1922, College of Charleston	Va.	Gertler, Louis (Law II) *Gillespie, Frank Smith (Law III)	D.C.
Evans, Robert Lee (Law III) B.S. in M.E. 1929, University of Maryland	D.C.	Gillis, Leslie, jr. (Law III) A.B. 1920, Virginia Military Institute	Ill. D.C.
Evans, William Wilder (Law II) A.B. 1930, University of Maryland	Md.	Glemser, Harry W. (Law II) M.F. 1929, Drexel Institute	N.J.
Fagelson, Bernard Melvin (Law I) Fav, Charles R. (Law II)	Va. Mass.	*Gottlieb, Howard Linwood (Law, Uncl.) B.S. 1918, University of Pennsylvania	D.C.
Felstone, Benjamin (Law III) B.S. 1931, The George Washington University	D.C.	LL.B. 1927, Temple University	
Ferbauer, Jack Alford (Law I) Fester, Henry Martin (Law III) Ch.E. 1927, Rensselaer Polytechnic Institute	Mass. D.C.	Goetz, Charles Moran (Law III) *Goldberg, Martin (Law I) A.B. 1932, University of Delaware	Wis. Del.
Fielding, Emma Parkes (Law I) B.S. 1931, Randolph-Macon Woman's College	D.C.	Goode, Donald J. (Law III) Gore, Harold Olen (Law I)	Iowa
Filius, Maurice W. (Law II) A.B. 1924, Cornell University	Conn.	Gore, Philip Larner (Law II) Gradolph, William Franck, jr. (Law I)	N.Mex. D.C.
Finkel, Elmer Keller (Law I) A.B. 1931, The George Washington University	Va.	Graham, Allen Criswell (Law I) Granberry, Billy Brown (Law I)	Ohio Md.
Fisher, Wheeler (Law I) A.B. 1932, American University	D.C.	Graves, James Miller (Law III) B.S. 1927, A.M. 1928, Harvard University	Va. D.C.
Fisher, William Alfred (Law II) A.B. 1928, University of Maryland A.M. 1930, The George Washington University	D.C.	Gray, Robert Meade (Law III) A.B. 1930, The George Washington University	D.C.
Fleck, James Hering (Law III) A.B. 1930, The George Washington University	D.C.	Gray, Walter Thomas (Law II) Green, Charles Livingston (Law I)	Mont. Utah
Fleming, William Wright (Law III) Fleming, Arthur Sherwood (Law III) A.B. 1927, Ohio Wesleyan University A.M. 1928, American University	D.C.	Green, Thomas Lamar (Law I) A.B. 1931, Mississippi College	Miss.
Flocks, Karl Wilhelm (Law II) B.Eng. 1930, Johns Hopkins University	D.C.	Greenawalt, Gray A. (Law II) B.S. 1928, Carnegie Institute of Technology	Ill.
Flournoy, Copley Winslow (Law I) Ford, Charles V. (Law II)	Pa.	Greene, Orville N. (Law III) A.B. 1929, Lehigh University	D.C.
Ford, Charles V. (Law II) A.B. 1930, Marshall College	Md. N.Y.	Greenwood, Joseph Richard (Law III) B.S. 1932, Indiana University	Ind.
France, Floyd L. (Law II) Frazier, Melvin S. (Law III) A.B. 1931, The George Washington University	D.C.	Griffin, Graydon McCoy (Law I) *Griffith, Arthur Walker (Law I)	Ark. D.C.
Frazier, Vernon Allan (Law III) A.B. 1930, The George Washington University	Ga. W.Va.	*Griffith, Terry Delmar (Law I) Griggs, Albert B. (Law II)	Va. Colo.
Fredricks, Anthony Theo (Law I) Free, Harold G. (Law I) B.S. 1932, The George Washington University	W.Va. Nebr. N.Dak.	Grimmell, Frank Albert (Law III) Grossman, Pauline (Law III)	Utah Ark.
	N.Dak.	*Guest, Raymond Richard (Law I) A.B. 1931, Yale University	N.Y.
	N.Dak.	Gubek, Mary Smith (Law III) A.B. 1929, Randolph-Macon Woman's College	Va.
	N.Dak.	Guthrie, Ross Ritter (Law II) A.B. 1928, Harvard University	Md.
	Idaho Iowa	Hadley, Harold D. (Law II) Hale, Frank Connell (Law III) Hall, Margaret (Law I) A.B. 1928, Wellesley College	Iowa Tex. Mass.

Hall, Robert Edward Lee (Law II)	D.C.	†Hinckley, Walter Freeman (Law, Special)	N.Y.
A.B. 1932, The George Washington University		Hirsh, Bennett Marcus (Law III)	Fla.
†Hall, William Dolliff (Law I)	D.C.	B.S. 1928, University of Pennsylvania	
B.S. 1921, Carnegie Institute of Technology		M.S. 1930, Georgetown University	
Hammar, Ralph (Law III)	D.C.	Hitch, Robert A. (Law II)	D.C.
B.S. 1926, M.S. 1927, Massachusetts Institute of Technology		B.S. in C.E. 1929, University of Maryland	
Hammerness, Clarence Rudolph (Law II)	Mont.	Hockley, Herbert Alfred (Law I)	D.C.
Hanback, William Brecht (Law II)	D.C.	A.B. 1929, Juniata College	
A.B. 1932, The George Washington University		Hoffmann, John M., jr. (Law II)	Calif.
†Handler, Emanuel (Law I)	Del.	B.Eng. 1926, University of California	
A.B. 1931, University of Delaware		Hollingsworth, Lindsay Lee (Law III)	Tex
Handloff, Herman (Law I)	Del.	Holmes, Franklin Austin (Law II)	Tex
A.B. 1932, University of Delaware		A.B. 1930, The George Washington University	
Hannah, Paul Francis (Law III)	D.C.	Holmes, Louis A. (Law III)	Nebr.
B.S. 1927, Dartmouth College		A.B. 1928, University of Nebraska	
Hardy, Glen E. (Law II)	Utah	Hooft, Wilson L. (Law III)	D.C.
A.B. 1930, University of Utah		Hoppe, Carolyn Louise (Law I)	Iowa
Harlan, Ashlan Fleetwood, jr. (Law II)	D.C.	A.B. 1925, Coe College	
A.B. 1930, The George Washington University		Hossfeld, Raymond Frederick (Law II)	D.C.
Harness, Philip Kump (Law I)	W.Va.	B.S. in E.E. 1930, The George Washington University	
Harris, Ernest Malone, jr. (Law I)	S.C.	Houghton, Harry Belmont (Law I)	D.C.
A.B. 1931, Wake Forest College		B.S. 1923, University of Vermont	
Harris, John Law (Law II)	Va.	Houston, Paris T. (Law III)	Tenn.
Harrison, Charles Harvey (Law I)	Conn.	A.B. 1930, Lincoln Memorial University	
A.B. 1930, Yale University		†Howard, F. Inez (Law I)	Kans.
Harrison, William Wirt, jr. (Law I)	S.C.	A.B. 1928, The George Washington University	
Hartman, John Adams, jr. (Law I)	Pa.	Hubbel, Carter Carol (Law II)	Wis.
A.B. 1932, Dickinson College		Hudson, Raymond Minor (Law I)	D.C.
Haslop, Lemuel Allen (Law II)	Md.	Hudson, Thomas Buford (Law II)	N.C.
B.S. 1917, University of Maryland		Huff, Neal Jay (Law I)	Iowa
†Havens, Nancy S. (Law I)	N.J.	Hughes, Carroll White (Law I)	Kans.
A.B. 1930, Rutgers University		A.B. 1932, The George Washington University	
Haviland, Harold Kenneth (Law I)	N.J.	Hughes, Joe D. (Law II)	Ala.
Ch.E. 1920, Polytechnic Institute of Brooklyn		Hutchison, Earl W. (Law III)	D.C.
Hedrick, Oppie Lee (Law I)	W.Va.	B.S. 1916, University of Wisconsin	
Heflier, Paul Emile (Law II)	Mich.	Hutson, John H., jr. (Law I)	D.C.
A.B. 1929, Dartmouth College		Hutton, Harry Theodore (Law II)	D.C.
Heilman, James Martin (Law I)	Pa.	B.S. 1930, The George Washington University	
E.E. 1931, Lehigh University		Hvde, Dewitt Stephen (Law II)	D.C.
Heinemann, Charles Berkery, jr. (Law II)	D.C.	†Anson, Nannie Armistead (Law III)	D.C.
Heinrich, Joseph Edward (Law I)	D.C.	A.B. 1930, The George Washington University	
B.S. 1927, Catholic University of America		Irion, Henry Gifford (Law I)	D.C.
*Helmke, Helen Margaret (Law III)	Calif.	A.B. 1932, Haverford College	
Helvestine, William (Law I)	D.C.	†Ivers, Joseph S. (Law II)	Wash.
Hendricks, John E. (Law II)	Md.	Iverson, Kenneth R. (Law II)	Utah
B.S. in E.E. 1929, The George Washington University		*Jackson, A. Rulon (Law III)	Utah
†Henry, Edward Ernest (Law II)	Wash.	Jackson, George Maynard (Law I)	Tenn.
Herrick, Philip Field (Law III)	D.C.	B.S. 1922, The George Washington University	
A.B. 1929, Williams College		Jackson, Thomas Searing (Law II)	D.C.
Hibschman, Maurice Wilhelm (Law II)	Wash.	Jeffreys, Robert Lawre (Law III)	W.Va.
Graduate 1931, U. S. Naval Academy		A.B. 1931, The George Washington University	
Hickey, Thomas James (Law II)	Mass.	Jennings, Harry Edmund (Law I)	Md.
B.S. 1930, Massachusetts Institute of Technology		Ph.B. 1932, University of Wisconsin	
High, Edward Louis (Law II)	Pa.	Johannessen, George Thomas (Law II)	D.C.
B.S. in C.E. 1929, University of Michigan		Johns, Llewellyn James (Law I)	Ohio
Hilbert, William Edward (Law III)	Calif.	Graduate 1920, U. S. Naval Academy	
Graduate 1917, U. S. Naval Academy		†Johnson, Ervin George (Law, LL.M.)	Calif.
A.M. 1925, Columbia University		B.S. 1927, University of California	
Hill, Richard A. (Law I)	Pa.	LL.B. 1932, The George Washington University	
A.B. 1932, The George Washington University		Johnson, George Edmund (Law III)	D.C.
Hill, Samuel Thomas (Law I)	N.C.	B.M.E. 1927, Northeastern University	
A.B. 1932, The George Washington University			



Johnson, Livingston Lee (Law I) B.S. in C.E. 1931, The George Washington University	D.C.	Koren, Samuel (Law I) B.S. 1910, Massachusetts Institute of Technology	Mass.
Johnson, Paul Gerhard (Law I)	Wis.	Korth, Frederick Herman (Law I) A.B. 1932, University of Texas	Tex.
Johnson, Vernon Webster (Law I) Ph.M. 1928, University of Wisconsin	Ill.	Kosowsky, Jack Lee (Law II) B.S. in C.E. 1930, University of Nebraska	Nebr.
Johnson, William Roy (Law II) B.C.S. 1924, New York University	D.C.	Kramer, Albert (Law II) B.S. in M.E. 1930, University of Virginia	Va.
Johnston, Albert Caldwell (Law II) A.B. 1930, The George Washington University	Va.	Krausner, Reginald Joseph (Law II) A.B. 1930, The George Washington University	D.C.
Johnston, Richard Lester (Law I) B.S. 1929, John Hopkins University	Md.	Kriegel, Abraham Bernard (Law II) B. Eng. 1927, Johns Hopkins University	N.Y.
Jones, Ralph Edmund, Jr. (Law I)	D.C.	Kuntz, Helen Pearl (Law I)	Kans.
Jones, Wilbur Glenn (Law I) Graduate 1922, U. S. Naval Academy M.S. 1925, Harvard University	Iowa	Lachowicz, John Stanley (Law III) B.S. 1922, A.M. 1925, Wesleyan University	Conn.
Justus, Chester Lee (Law III) B.S. in E.E. 1928, University of Idaho	D.C.	Lang, John Thomas (Law I) Lane, Donald Edward (Law I) B.S. 1931, Yale University	W. Va. Md.
Kanini, Edmund William F. (Law II) B.S. in M.E. 1935, Purdue University	Ind.	*Langford, G. Frank (Law III) M.E. 1927, Stevens Institute of Technology	N.Y.
Kaniffman, Vernon Charles (Law II) B.S. 1928, Pennsylvania State College M.S. 1930, Massachusetts Institute of Technology	Pa.	Lannan, John Vincent (Law III) Larcombe, John Ray (Law I)	Minn. Va.
Keating, George Joseph (Law II) Keating, George Harold (Law III) Ph.B. 1927, Dickinson College	N.Y. Pa.	Latimer, Cecil (Law II) B.S. in E.E. 1925, Georgia School of Technology	Fla.
Kemper, John Rankin (Law I)	D.C.	Lebel, Arthur Leo (Law I) B.F.S. 1928, Georgetown University	D.C.
Kessler, Hunter Lambert (Law I)	D.C.	Ledman, Hornbaker B. (Law II)	Va.
Keller, William Davis (Law III) A.B. 1929, University of Southern California	Calif.	Lee, Donald E. (Law II) the Gates, Elmer Thomson (Law, Uncl.) B.S. 1928, University of Delaware	Wis. Del.
Kellogg, Clyde Elmer (Law III) Kelmick, David M. (Law II)	D.C. Utah	Li, B. 1932, The George Washington University	
Kennedy, Howard (Law II)	Nebr.	Hemon, Andrew Duvall (Law I) B.S. in Eng. 1932, Princeton University	D.C.
Kennell, Christian Robert (Law I)	Ind.	Lenny, Lewis J. (Law II) B.S. 1925, Worcester Polytechnic Institute	Mass.
Kerkam, William Barton, Jr. (Law I) B.S. 1932, Princeton University	D.C.	Leonning, Leo John (Law II) B.S. 1926, Oregon State Agricultural College	N.Y.
Kerry, Paul Edward (Law II) Graduate 1928, U. S. Naval Academy	Ill.	Leopold, Max (Law I) Ph.B. 1931, Yale University	Conn.
Key, William Ward (Law II) A.B. 1928, Ohio Wesleyan University	D.C.	Hetch, Henry F. (Law I) A.B. 1931, Wesleyan University	D.C.
Kiehlme, Emma (Law I)	D.C.	Letner, Abraham Max (Law I) B.S. in Eng. 1931, University of Pennsylvania	D.C.
Kilgore, Lowell Berry (Law I) A.B. 1925, A.M. 1925, Oberlin College Ph.D. 1930, Johns Hopkins University	D.C.	Letts, David S. (Law I) A.B. 1932, Parsons College	Iowa
Killarney, Francis M. (Law I)	Mass.	Leventhal, Edwin (Law II)	D.C.
Kilham, Joe E. (Law III)	Mich.	Levin, Benjamin (Law II)	D.C.
Kinball, Arthur Allen (Law III) A.B. 1931, The George Washington University	Mass.	Lewis, Reeve, Jr. (Law I) A.B. 1932, Yale University	D.C.
Kinsler, James M. (Law I)	Nebr.	Ligon, David Stovall (Law II)	Va.
Kirkwood, Robert Hoyt (Law II) A.B. 1924, University of Montana	D.C.	Lindquist, Willis J. (Law, LL.M.) LL.B. 1932, The George Washington University	Minn.
Kittelle, Sumner Sigbee (Law I) B.S. in C.E. 1931, Purdue University	N.Y.	Linscott, Henry Dallas (Law III) B.S. 1933, Kansas State Agricultural College	Kans.
Klak, John James (Law, Special) B.S. 1923, University of Wisconsin	Wis.	Little, Leroy C. (Law III) B.S. in E.E. 1924, University of Minnesota	Wis.
Klemay, Francis Joseph (Law III) B.S. 1929, Carnegie Institute of Technology	Ohio	Littlehales, George Reber (Law III) B.S. 1925, Princeton University	D.C.
Kline, Robert Charles, Jr. (Law III)	Mich.	Lloyd, Fergus L. (Law III)	Miss.
Klivitzky, Boris Max (Law III) A.B. 1931, The George Washington University	D.C.		
Knight, Frederick Hawley (Law III) B.S. in E.E. 1928, Worcester Polytechnic Institute	Vt.		
Knosche, Vernon William (Law II)	Wash.		
Knudson, Louis R. (Law II)	Utah		
Kolekammer, Wayne Marmas (Law II) B.S. in E.E. 1930, Union College	Ohio		



Lord, Clarence Irving (Law III)	Pa.	Mason, William R. (Law II)	Md.
Lorenz, Eugene Hurdle (Law I)	D.C.	Matson, Frederic Church (Law III)	D.C.
B.S. 1930, University of Pennsylvania		E.E. 1929, Lehigh University	
Lowden, Graham Norris (Law III)	D.C.	Matteson, Frederick Lewis, jr. (Law III)	Ind.
B.S. 1929, Washington and Lee University		B.S. in C.E. 1925, Rose Polytechnic Institute	
†Lowe, Robert Chapin (Law I)	N.J.	†Mattox, Virginia A. (Law I)	D.C.
Lowrey, Perrin Holmes (Law II)	Miss.	A.B. 1927, The George Washington University	
Luchs, Frank Joseph (Law I)	D.C.	†Mav, James Truett (Law II)	Tex.
Ludwig, Robert Eugene (Law III)	Va.	†Mayberry, Bernard Cornelius (Law II)	Ill.
A.B. 1926, The George Washington University		A.B. 1911, University of Illinois	
Luera, Margaret Frances (Law I)	Md.	Mayers, Harry Ripley (Law II)	Me.
Lund, Earl Hildreth (Law II)	D.C.	B.S. 1930, University of Maine	
B.S. in C.E. 1922, C.E. 1923, University of Minnesota		McCain, James Gordon (Law I)	D.C.
†Lundgren, Maynard Benjamin (Law I)	D.C.	McCandlish, Robert John, jr. (Law II)	Va.
A.B. 1920, A.M. 1912, The George Washington University		A.B. 1930, University of Maryland	
Lyle, Firman Powell (Law I)	D.C.	McCay, George (Law I)	S.C.
B.S. in E.E. 1932, The George Washington University		McClellan, Sidney (Law II)	D.C.
Lyman, Josiah (Law III)	D.C.	A.B. 1927, University of Idaho	
A.B. 1931, The George Washington University		*McClelland, Casper Shepard (Law III)	Pa.
Lyons, John Leonard (Law III)	Ga.	McCollum, Lloyd (Law II)	Me.
B.B.A. 1925, Emory University		B.S. 1930, University of Maine	
†Lyons, Jake Gee (Law III)	Okla.	McCrea, John Livingstone (Law, LL.M.)	Mich.
A.B. 1932, Oklahoma University		Graduate 1915, U. S. Naval Academy	
Mabry, Scott Harvey (Law I)	N.Mex.	LL.B. 1930, The George Washington University	
A.B. 1932, University of New Mexico		McCrorken, Eugene Paul (Law, LL.M.)	N.Y.
MacDonald, Thomas Ross (Law III)	Mass.	M.E. 1910, Columbia University	
B.S. 1930, Massachusetts Institute of Technology		LL.B. 1926, The George Washington University	
MacDonald, Verne O. (Law I)	Conn.	McDonald, Michael J. (Law II)	Mass.
A.B. 1931, The George Washington University		†McGann, Burton A. (Law, Uncl.)	D.C.
Mack, Frederick Fuller (Law II)	D.C.	A.B. 1920, University of Maryland	
M.E. 1920, Cornell University		†McGee, Kenneth Claude (Law I)	D.C.
Mack, Wilber Hadley (Law I)	Mass.	B.S. 1932, Washington University	
A.B. 1932, Dartmouth College		McGregor, Malcolm Parker (Law I)	La.
Mackey, Harry S. (Law III)	N.Y.	A.B. 1932, The George Washington University	
F.I. 1929, Cornell University		McInerney, Francis Xavier (Law I)	Wyo.
MacMullan, Charles Francis (Law II)	Md.	Graduate 1920, U. S. Naval Academy	
A.B. 1932, The George Washington University		McKnight, C. Maurice (Law II)	Okla.
Madory, John Ellsworth (Law I)	D.C.	B.S. in M.E. 1929, Purdue University	
Mahoney, Paul (Law II)	D.C.	McKnight, Theodosia (Law I)	S.C.
A.B. 1920, A.M. 1920, Stanford University		McLachlen, Anna Helene (Law I)	M.I.
Malley, John Wallace (Law II)	W.Va.	McNeill, George Hamilton (Law III)	D.C.
Graduate 1927, U. S. Naval Academy		A.B. 1929, Wake Forest College	
Mangum, Max Knight (Law I)	Utah	McPherson, David Caswell (Law I)	Md.
A.B. 1932, Brigham Young University		*Meindl, Gerald James (Law III)	Oreg.
Marano, Frank Peter, II (Law II)	N.J.	B.S. 1929, University of Oregon	
A.B. 1912, The George Washington University		Melville, Henderson Arlo (Law III)	N.Dak.
Markwell, Katherine (Law II)	Kans.	B.S.C. 1926, University of North Dakota	
A.B. 1928, University of Kansas		†Menke, George Vincent (Law II)	D.C.
Martin, George Bernard (Law III)	Kans.	A.B. 1920, A.M. 1911, Catholic University of America	
Martin, Harold Alton (Law II)	Wash.	Mennen, Frank Owen (Law III)	Ind.
Martin, Henry Stanley (Law III)	Idaho	Meyer, Ralph G. (Law III)	Ill.
Martin, Martha F. (Law II)	Ga.	Milans, Robert Southland (Law II)	D.C.
Martinsky, Erwin Ernest (Law I)	N.Y.	E.E. 1920, Cornell University	
Masincup, W. Earl (Law I)	D.C.	Miller, Bennett Goodyear (Law II)	Pa.
A.B. 1932, American University		Miller, Bruce Ervin (Law III)	Ohio
Mason, E. Wellford (Law I)	Md.	A.B. 1911, The George Washington University	
B.S. 1931, The George Washington University		Miller, Lambert Henry (Law I)	S.Dak.
Mason, Richard D. (Law II)	Okla.	A.B. 1932, The George Washington University	
B.S. 1920, A.B. 1931, E.E. 1932, University of Oklahoma		Miller, Stanley W. P. (Law II)	N.Mex.
M.S. in E.E. 1931, Massachusetts Institute of Technology		A.B. 1931, University of New Mexico	
		Mills, Carroll Vandaveer (Law II)	Ill.
		B.S. in C.E. 1930, University of Illinois	
		Mills, William Butler (Law II)	Me.
		A.B. 1920, Bowdoin College	
		A.M. 1911, Syracuse University	

Milmore, Oswald Herman (Law III) B.S. 1922, University of California	Calif.	Nolan, James Edward (Law III) B.S. in E.E. 1926, Tufts College	Mass.
Minor, Aubrey Layton (Law I)	Ind.	Nolo, Marie Goddardson (Law III) A.B. 1912, The George Washington University	Minn.
Mitch, Seymour Stanley (Law I)	D.C.	Nordlinger, Bernard I. (Law III) A.B. 1926, The George Washington University	D.C.
Mitch, Valentine Jones (Law II) B.S. in C.E. 1928, Rose Polytechnic Institute	Ind.	Norley, William Henry (Law II) B.M.E. 1922, University of Minnesota	Minn.
†Mitchell, Emley Floyd (Law I) A.B. 1922, A.M. 1924, The George Washington University	Md.	†Norris, Henry G. (Law, LL.M.) LL.B. 1922, The George Washington University	La.
Munk, George Edward (Law, LL.M.) A.B. 1928, LL.B. 1929, The George Washington University	D.C.	Norris, John Gilbert (Law III) A.B. 1921, The George Washington University	D.C.
Moore, Howard Nelson (Law I) E.E. 1924, Cornell University	W.Va.	Northrop, Edward Skottowe (Law I) Norton, P. T., Jr. (Law III) A.B. 1928, University of Texas	Mt. Tex.
Morris, John Joseph (Law III) B.S. 1928, University of Virginia	Va.	†Norton, William Forrest (Law II) O'Brien, William Lathor (Law II) A.B. 1926, West Virginia Wesleyan College	Ala. W.Va.
Morris, Lynn B. (Law II)	Utah	Olsen, Niels Andrew (Law II) Olson, Earl Stanley (Law III) B.S. 1927, University of Washington	Idaho Md.
Morris, Walter Newth (Law II)	Va.	O'Malley, Thomas R. (Law III) B.S. 1926, Armour Institute of Technology	Ill.
Morton, John (Law II)	Mass.	Osborne, John Broadus (Law II) A.B. 1917, Furman University	S.C.
Morris, Kenneth McKay (Law I) Mourich, Frank Anna (Law III)	D.C. Utah	Ossen, Jack Ray (Law II) Owen, Allen (Law III) B.S. 1926, University of Michigan	Conn. Ohio
Murphy, Paul L. (Law II) A.B. 1921, Yankton College	S. Dak.	Oxenbarg, Gerald Isaac (Law III) A.B. 1931, The George Washington University	D.C.
Mulford, Kenneth Eugene (Law III) B.S. in E.E. 1929, The George Washington University	Md.	Pagan, Oliver Elwood (Law I) Pazo, Maurice Julius (Law I) B.S. 1920, A.M. 1921, Middlebury College	D.C. Vt.
Mullin, James Palmer (Law II) B.S. 1926, University of Illinois A.M. 1928, Syracuse University	Ind.	Painter, Fannie Merle Mozelle (Law I) Palmer, Jesse Joseph Webb (Law I) A.B. 1923, A.M. 1925, The George Washington University	Va. D.C.
Murphy, Arthur Reuben (Law I) A.B. 1922, American University	D.C.	†Palmore, Julian Ivanhoe, jr. (Law II) B.S. in C.E. 1920, University of North Carolina	Md.
Murphy, Maxwell Kerr (Law II) B.S. 1926, University of Maine	Me.	Parel, James Donald (Law II) †Parker, Albert M. (Law, Uncl.) B.S. in M.E. 1928, University of Maine LL.B. 1932, The George Washington University	Iowa N.J.
†Muth, George Edward (Law III) A.B. 1921, The George Washington University	D.C.	Parker, Charles Bernard (Law II) B.S. 1927, M.S. 1929, Worcester Polytechnic Institute	Mass.
Nackenoff, Jacob Leo (Law II) B.S. in C.E. 1928, University of Nebraska	Nebr.	Parker, Donald William (Law II) †Parker, Ralzemond Bacon (Law II) A.B. 1931, University of Michigan	Conn. N.Y.
Nasac, Casetano Caravan (Law I)	P.I.	†Parker, William Louis (Law I) B.B.A. 1932, University of Texas	Tex.
Neh, John M. (Law II) A.B. 1929, Nebraska Wesleyan University	Nebr.	Parrish, Eldon M. (Law III) Parrish, James Wayne (Law I) Parsons, George Samuel (Law III)	W.Va. Utah Colo.
Neilson, G. Darrell (Law III) B.S. 1928, Utah State Agricultural College	Utah	Parsons, Richard A. (Law II) B.S. in M.E. 1920, The George Washington University	D.C.
†Neilson, Rulon K. (Law I)	Utah	†Pasch, Maurice Bernard (Law II) Patterson, Donald Gillis (Law III) Patterson, Melvin (Law II)	Wia. N.H. N.Y.
Nelligan, James D. A. (Law III)	N.J.	†Patterson, Robert John (Law II) B.S. 1929, Clarkson College of Technology	N.Y.
Nelson, Atwood Crosby (Law I)	Me.		
Nelson, Joseph Edgar (Law I) A.B. 1912, University of California	Calif.		
Nelson, Melville Cary (Law II) B.S. in Eng. 1932, The George Washington University	N.C.		
†Neslen, Clarence Cannon (Law I) A.B. 1932, University of Utah	Utah		
Newlin, John Wigton (Law III) A.B. 1931, The George Washington University	Pa.		
Newman, James Drennan (Law I) A.B. 1931, University of Arkansas	Ark.		
Newton, Edward Taylor (Law III) B.S. in E.E. 1926, Georgia Institute of Technology	Ga.		
Newton, Gaylord Weld (Law II) B.S. in M.E. 1929, New York University	N.Y.		
Nichols, Louis B. (Law II)	Mich.		
Nichols, Robert Cary, jr. (Law I)	Va.		
Nicholson, Gordon A. (Law II)	Utah		
Nikambaeng, Suga (Law I)	Siam		

Paulson, Lynn Clifford (Law II) A.B. 1931, The George Washington University	N.C.	Rathburn, M. Hudson (Law II) B.S. 1921, University of Colorado	Colo.
Paulus, George Melchior (Law II)	Wis.	Rawalt, Marguerite (Law III)	Tex.
Pearson, John Thomas (Law, LL.M.) LL.B. 1916, University of Kansas	Mo.	Reed, Gordon (Law I) B.S. in M.E. 1929, University of Minnesota	Minn.
Pedersen, Lawrence B. (Law III) A.B. 1926, Grinnell College	Iowa	†Reed, Mabel Christina (Law I) A.B. 1932, The George Washington University	Mont.
Peelle, Stanton Canfield, jr. (Law II)	Md.	Rees, Elizabeth Ann (Law I) A.B. 1932, The George Washington University	Va.
Pegram, Thomas Edward (Law I)	Miss.	Remsen, Charles Cornell, jr. (Law III) E.E. 1930, Cornell University	N.J.
Permut, Jack (Law II) A.B. 1931, The George Washington University	D.C.	†Replegle, Thelma Alice (Law I) A.B. 1930, The George Washington University	D.C.
†Perring, Katherine (Law I) A.B. 1932, Grinnell College	Iowa	Reznek, Joel (Law II)	D.C.
†Perry, Albert Walter (Law, LL.M.) LL.B. 1912, The George Washington University	Fla.	Rice, Roland (Law III) A.B. 1929, American University	Md.
†Peterson, Ben Stuart (Law I) Peverill, William Leroy (Law III) B.S. in M.E. 1927, University of Maryland	Idaho D.C.	Richards, J. Walsh (Law II) Richards, Karl Morgan (Law II) A.B. 1927, University of Utah	D.C. Utah
Phillips, Lawrence Akers (Law III) A.B. 1931, The George Washington University	D.C.	Richev, Robert Charles (Law III) Richmond, David Walker (Law I)	Ohio
Pickens, Dallas (Law II)	D.C.	Ruby, Scott G. (Law I)	Kans.
Pillars, Miles Dorwin (Law III) B.S. 1928, Oregon State Agricultural College	Oreg.	†Riggles, Ira William (Law, Special) †Rigney, Edward Eugene (Law II) A.B. 1931, Hobart College	Iowa N.Y.
Pisarra, Francis Joseph (Law III) E.E. 1930, Reusselaer Polytechnic Institute	N.Y.	Riordan, Robert Callahan (Law II) B.S. in M.E. 1929, Catholic University of America	D.C.
Pittle, Herbert (Law I)	D.C.	Roberts, Eugene Joseph (Law II) B.S. 1930, University of Maryland	D.C.
Pittman, John Irvin (Law I)	Va.	Roberts, Ralph S. (Law III)	Utah
Pluggs, John Ade (Law II) B.S. 1920, M.S. 1930, Massachusetts Institute of Technology	Mass.	Robinson, William Walker (Law III) Rodgers, George C. (Law III)	Ky. W.Va.
Polkowitz, Morton Lee (Law III) A.B. 1931, The George Washington University	N.J.	*B.S. 1929, Davis and Elkins College †Rohrer, Carl Pepper (Law III) A.B. 1931, The George Washington University	Va.
†Poole, William Halbert (Law I) Porotto, Fortunato Igino (Law I)	Md. Mass.	Romney, Blaine Taylor (Law II)	Utah
Porter, Alexander Munn (Law II)	D.C.	Ronald, James Hall (Law III) A.B. 1920, Earlham College	Ind.
Porter, George Wilbur (Law II) A.B. 1930, Dartmouth College	N.Y.	Ronning, Henry Leigh (Law II)	Minn.
Porter, William Bracken (Law II)	Ind.	†Rose, Jesse Aaron (Law, Special) LL.B. 1927, University of Maryland	Md.
Portnov, Maurice Marvin (Law I) B.S. 1930, University of Illinois	Ill.	Ross, George John (Law I) Ross, Stanley Edward (Law II) B.S. 1926, Michigan State College of Agriculture and Applied Science	Utah Mich.
Powell, Gladys (Law II) A.B. 1932, John B. Stetson University	Fla.	Rosaman, Richard (Law, Uncl.) A.B. 1907, Cornell University	Iowa
Powell, Harold Neally (Law III) B.S. 1920, University of Maine	D.C.	LL.B. 1925, The George Washington University	
Prangley, Curtis Frederick (Law II) B.S. in E.E. 1930, The George Washington University	D.C.	Rothenburg, Clarence Fullmer (Law III) A.B. 1930, University of Kentucky	D.C.
†Price, Henry Ellis (Law I) A.B. 1912, Emory University	Ga.	†Roudabush, William Gladstone (Law I) Rule, Raymond (Law III)	D.C. D.C.
Price, Leonard H. (Law II)	Md.	Rupert, J. Allison (Law, LL.M.) A.B. 1927, Ohio State University	Pa.
Quale, Franklin E. (Law II) B.S. in M.E. 1930, University of Michigan	Ohio	LL.B. 1911, The George Washington University	
Quijano, Juan R. (Law III) B.F.S. 1927, Georgetown University	P.R.	Rupert, Sheldon (Law II) A.B. 1931, Kalamazoo College	Mich.
Radue, Richard Glover (Law II) B.S. in Eng. 1931, The George Washington University	D.C.	†Rush, Orville Findley (Law II) Russell, Frank B. (Law II)	D.C. Ala.
Randolph, Cary Jacquelin (Law I) A.B. 1927, University of Virginia	Va.	A.B. 1930, University of Alabama	
Ratchliffe, Joseph Leinson (Law II) A.B. 1931, The George Washington University	D.C.	Rverson, John Edward (Law III) A.B. 1928, University of Maryland	D.C.
		Sailor, Hobart Andrew (Law III) Graduate 1918, U. S. Naval Academy	Ohio
		Salisbury, Clarence Arnold (Law II)	Kans.



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Saltzman, Frank K. (Law II)	D.C.	Simon, Leon (Law II) B.S. in Ch.E. 1930, University of Illinois	D.C.
Sandall, Eleanor Trapp (Law I) Ph.B. 1922, University of Chicago	D.C.	Simons, Richard Hamilton (Law III) Simpson, Donald James (Law II) B.S. in E.E. 1929, F.E. 1930, North- western University	N. Dak. D.C.
Sands, William Hupp (Law I) A.B. 1931, University of Pennsylvania	Md.	Simpson, Ellsworth Leoley (Law I) Sison, Floyd W. (Law II) A.B. 1928, Simmons University	Va. Tex.
†Sannebeck, Norville Harrison (Law I) A.B. 1931, The George Washington University	Mo.	Smethurst, Raymond S. (Law II) B.S. 1930, Harvard University	Mass.
Sapp, Robert Asa (Law I) Scatterday, George H. (Law I) B.B.A. 1931, University of Washington	Ga. Idaho	Smith, Austin William (Law I) Smith, Beata Max (Law II) A.B. 1927, Goucher College	N.Y. Pa.
Schimmel, Joseph (Law II) B.S. in Ch.E. 1923, Carnegie Institute of Technology	Md.	Smith, H. Albert (Law I) Smith, James Setmon (Law I) B.S. 1929, Utah State Agricultural College	Mo. Utah
Schmielez, Andrew Hubert (Law II) A.B. 1928, University of Pittsburgh	D.C.	Smith, John Wallace (Law II) Smith, Raymond Sherman (Law I) Smith, Reginald Frank (Law III) Ch.E. 1928, Lehigh University	Ohio Okla. Pa.
Schmidt, Walter Theodore (Law I) A.B. 1932, The George Washington University	D.C.	Smith, Waller Barrett (Law II) A.B. 1931, College of William and Mary	Va.
Schmidt, Wilbur A. (Law, LL.M.) LL.B. 1932, Marquette University	Wis.	Smoot, Charles Effinger (Law II) Smythe, D. Verner (Law II) M.E. 1928, Cornell University	Pa. Ill.
Schmitt, Paul Joseph (Law II) B.S. in M.E. 1932, Purdue University	Wis.	Snow, Alvah Levern (Law I) †Snow, R. Dale (Law II) Snare, Anne (Law III) A.B. 1928, The George Washington University	Mo. Utah Md.
Schofer, Arthur J. (Law II) Schofer, Harry N. (Law III) B.S. in C.E. 1922, The George Washington University	D.C. D.C.	Snyder, Albert Ralph (Law II) Snyder, Henry S. (Law II) Spangler, George Wile (Law III) A.B. 1927, The George Washington University	D.C. D.C. Pa.
Schofield, William W. (Law III) Scholes, Dudley John (Law III) LL.B. 1930, University of Michigan	D.C. Mich.	Spasoff, John (Law II) B.S. in E.E. 1920, The George Washington University	Calif.
Schwartz, Samuel (Law III) Schwartz, Benjamin Klein (Law I) Scott, Harry Donald (Law II) Scribner, Frank Edward (Law III) A.B. 1931, The George Washington University	Conn. D.C. Ill. D.C.	Spencer, David Crisman (Law II) A.B. 1930, University of Utah Spielman, William Paul (Law II) A.B. 1931, The George Washington University	Utah D.C.
*Seemiller, Keith Lorraine (Law III) B.S. 1932, Brigham Young University	Utah	Spivak, Joseph Harry (Law I) Spomner, Beth (Law I) Stanley, William S. (Law I) A.B. 1931, The George Washington University	Conn. Kans. D.C.
Seibold, Myron James (Law III) B.S. in E.E. 1928, Carnegie Institute of Technology	Pa.	Stauffer, David Rinehart (Law I) Steele, John Winton (Law II) Steen, Coleman Bree (Law II) Steiner, Alexander Waitman (Law I) Stephens, Francis Desvenaux (Law II) B.S. 1930, University of Maryland	Calif.
Shands, Richard Eppes (Law, LL.M.) BS. 1918, LL.B. 1921, University of Virginia	D.C.	Stewart, George Etness (Law I) †Stone, Charles Parker (Law II) A.B. 1931, Yale University	Utah D.C.
*Shapiro, Arthur (Law III) B.Eng. 1921, Johns Hopkins University	D.C.	Stone, Franklin Martin (Law II) Stoner, George B. (Law, LL.M.) A.B. 1927, LL.B. 1928, Yale University	Minn. D.C.
Sharp, Freeman Wilfred, Jr. (Law III) A.B. 1931, The George Washington University	D.C.	Stover, John Lewis (Law III) Stall, Harold W. (Law III) A.B. 1928, Pennsylvania State College	Pa. Pa.
Sheldon, Alice Colbert (Law II) A.B. 1926, The George Washington University	D.C.	†Stull, Neil Francis (Law III) A.B. 1931, Ohio State University	Ohio
Shelton, Frederick DeWitt (Law III) A.B. 1930, Drury College	Mo.	Stults, Harold L. (Law II) B.S. in E.E. 1930, Purdue University	Ind.
Sherbondy, Donald I. (Law II) A.B. 1930, Ohio Wesleyan University A.M. 1931, American University	Pa.		
Sherk, Laurence Polkshorn (Law I) Sherf, Raphael (Law I) Shilling, Katherine Emma (Law I) A.B. 1928, Wellesley College	D.C. D.C. Ohio		
†Shouse, John Henry (Law I) A.B. 1931, Betts College	Ky.		
†Shover, Harry C. (Law, Eng.) Shumaker, Loch (Law II) B.S. 1932, University of Illinois	D.C. Ill.		
Sigler, Wendell Prugh (Law I) A.B. 1928, Diermouth College	Md.		
Siler, Athine Kieffer, Jr. (Law III) Silverman, Israel (Law II) A.B. 1932, The George Washington University	Pa. D.C.		



†Summers, Vaughn Wathen (Law II)	Ill.	Walter, Paul Bradbury (Law II)	Ill.
Swanson, Harold A. (Law II)	Mass.	B.S. 1925, Dartmouth College	
B.Ch.E. 1930, Northeastern University		Wanlass, Ralph Page (Law I)	Utah
Sweeny, Charles Amos (Law II)	Ohio	Ward, Chester Charles (Law II)	D.C.
†Swinburne, Arthur Francis (Law II)	D.C.	B.S. 1931, Georgetown University	
Swingle, Lester Monroe (Law I)	D.C.	Waterhouse, Robert Carmack (Law II)	Tenn.
B.S. in M.E. 1932, The George Washington University		B.S. in E.E. 1930, Carnegie Institute of Technology	
Syphers, Grant Eugene (Law I)	Utah	Watkins, Kennedy Campbell (Law I)	D.C.
		A.B. 1932, The George Washington University	
Tenney, E. Paul (Law II)	Wash.	Weaver, Benjamin Woodruff (Law III)	D.C.
A.B. 1926, Stanford University		Weinberg, Joseph Harry (Law II)	D.C.
Thomas, Edwin Maroni (Law I)	Colo.	Weingartner, Ademar Grimm (Law I)	Md.
Thomas, George Samuel (Law I)	Ohio	Weitzel, Frank Harvey (Law II)	D.C.
Thompson, Nat P. (Law III)	Ill.	A.B. 1931, The George Washington University	
†Thompson, Owen Gardner (Law I)	D.C.	Welles, John Roset (Law II)	Pa.
Thurman, William Taft (Law I)	Utah	B.S. 1920, Lafayette College	
A.B. 1931, University of Utah		Werlich, Edgar Julius (Law II)	Ill.
Tiencken, Wilfred P. (Law I)	S.C.	M.E. 1930, Cornell University	
B.S. in C.E. 1929, Clemson College		Wertz, Hugh Slater (Law II)	D.C.
Tilden, Richard Atwood (Law I)	D.C.	B.S. in E.E. 1939, The George Washington University	
Tomlin, Carl William (Law II)	Mo.	West, Charles Whitney (Law II)	Miss.
Tone, George LaRue (Law III)	Pa.	Graduate 1920, U. S. Military Academy	
A.B. 1930, Washington and Jefferson College		West, Wilburn Clyde (Law I)	Utah
Trask, Alfred S. (Law III)	Minn.	Westbrook, Wilson Emmette (Law I)	Va.
B.S. in E.E. 1923, University of Minnesota		A.B. 1925, College of William and Mary	
†Tritley, O. Edward (Law III)	Nebr.	A.M. 1929, Columbia University	
A.B. 1928, The George Washington University		Whipple, M. Edith (Law I)	Iowa
Truesdell, Henry Palmer (Law II)	N.I.	White, Dean Warner (Law I)	N.Y.
C.E. 1930, Cornell University		A.B. 1931, Allegheny College	
Tuhy, Stephen, jr. (Law II)	D.C.	White, Grace A. (Law II)	Ohio
Turkel, Harry Raymond (Law II)	D.C.	A.B. 1932, The George Washington University	
A.B. 1927, Stanford University		White, Richard M. (Law I)	Md.
Turnbull, Frederick William (Law II)	D.C.	A.B. 1930, University of Maryland	
Ullman, Jerrold B. (Law I)	D.C.	Whited, Norman Willmer (Law II)	Mich.
Underhill, Wingate Egerton (Law I)	N.C.	B.S. in C.E. 1914, Bucknell University	
B.S. in C.E. 1910, University of North Carolina		†Wildman, John Philip (Law I)	Calif.
Underwood, Raymond (Law I)	D.C.	B.S. in C.E. 1930, The George Washington University	
B.S. 1929, Massachusetts Institute of Technology		Wilkins, Donald Leroy (Law I)	Mass.
Van Deman, Wilma (Law II)	Ind.	A.B. 1931, Oliver College	
Vandervoort, Benjamin Franklin (Law II)	Md.	Wilkinson, Enloe (Law I)	D.C.
C.E. 1908, Rensselaer Polytechnic Institute		Williams, Alvin Lacy (Law I)	Ill.
Vander Zwart, Richard Peter (Law I)	Mich.	Williams, Frank Tatom (Law II)	Miss.
Van Dyke, Oro LaMont (Law II)	Utah	A.B. 1924, Mississippi Agricultural and Mechanical College	
Vorela, Arthur Alexis (Law I)	D.C.	A.M. 1928, University of North Carolina	
B.Eng. 1930, Johns Hopkins University		Willford, Imogene (Law, LL.M.)	Miss.
Vaughn, Thomas Rae (Law I)	Ark.	LL.B. 1920, The George Washington University	
Vendel, John Robert (Law II)	Ind.	R.P.S. 1910, American University	
B.S. 1920, Rose Polytechnic Institute		Wilson, John Louis (Law II)	Ala.
Vibber, Alfred Wheeler (Law II)	D.C.	B.S. 1930, Alabama Polytechnic Institute	
B.S. 1930, Worcester Polytechnic Institute		Windsor, Paulina (Law III)	D.C.
†Wainwright, Mildred Rowena (Law III)	Ill.	Wingard, Jay Frantz (Law II)	Pa.
Walck, Earl C. (Law II)	Pa.	A.B. 1927, Ohio Northern University	
A.B. 1932, The George Washington University		Wise, Charles Conrad, jr. (Law I)	D.C.
Waldman, Jacob (Law II)	Pa.	Wischart, H. H. (Law II)	Ind.
A.B. 1920, University of Pennsylvania		Wolcott, Carroll Johns (Law I)	Md.
†Walker, D. Merle (Law I)	Kans.	B.Ch. 1912, Cornell University	
B.S. 1930, Kansas State Teachers College		Wolfe, Richard Russell (Law II)	Kans.
Walker, Walter K. (Law III)	Utah	B.S. 1920, M.S. 1910, Massachusetts Institute of Technology	
Wallace, George Lloyd (Law III)	D.C.	Wood, John Sumner (Law III)	Md.
Graduate 1923, U.S. Naval Academy		B.S. 1924, Harvard University	
Waller, Philip David (Law III)	Ind.	Wright, James Warren (Law III)	Ohio
		A.B. 1922, Ohio Wesleyan University	
		A.M. 1923, Ohio State University	

# *The Law School*

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Wright, Joseph Sutherland (Law II)	Mont.	Young, James A. (Law I)	
Wrest, Richard Walter (Law I)	Calif.	Young, John Arthur (Law II)	Idaho
Graduate 1909, U. S. Naval Academy		F. F. 1928, Rensselaer Polytechnic	N. Y.
Welborn, Julian Henry (Law II)	S. C.	Institute	
B.S. 1923, The Citadel		Young, Walter Hopkins (Law III)	Ohio
Wyatt, Hardee (Law II)	D. C.	A. B. 1924, Ohio Wesleyan University	
A. B. 1901, Huntington College		Zangwill, Bernard Louis (Law III)	D. C.
Yaffee, Anne R. (Law II)	D. C.	B.S. 1923, M.S. 1929, Massachusetts	
A. B. 1930, The George Washington		Institute of Technology	
University		Zarilli, Kenneth John (Law III)	Conn.
Yinger, Mary Elsie (Law I)	Pa.	Zartman, Ross Barnard (Law II)	D. C.
York, Foster (Law II)	D. C.		

## SUMMARIES OF REGISTRATION

1932-33

### NUMBER OF REGISTRATIONS

Candidates for the degree of Bachelor of Laws:	
First year.....	273
Second year.....	303
Third year.....	204
Total.....	780
Candidates for the degree of Master of Laws.....	32
Total candidates for degrees.....	812
Unclassified students.....	7
Special students.....	4
Total.....	823

### GEOGRAPHICAL DISTRIBUTION OF STUDENTS

Alabama.....	8	New Jersey.....	12
Arizona.....	1	New Mexico.....	3
Arkansas.....	12	New York.....	33
California.....	10	North Carolina.....	7
Colorado.....	4	North Dakota.....	6
Connecticut.....	15	Ohio.....	21
Delaware.....	5	Oklahoma.....	7
District of Columbia.....	236	Oregon.....	4
Florida.....	5	Pennsylvania.....	32
Georgia.....	9	South Carolina.....	8
Idaho.....	9	South Dakota.....	3
Illinois.....	28	Tennessee.....	5
Indiana.....	19	Texas.....	13
Iowa.....	17	Utah.....	47
Kansas.....	16	Vermont.....	3
Kentucky.....	5	Virginia.....	37
Louisiana.....	4	Washington.....	9
Maine.....	8	West Virginia.....	13
Maryland.....	49	Wisconsin.....	12
Massachusetts.....	23	Wyoming.....	3
Michigan.....	13	France.....	1
Minnesota.....	9	Hawaii.....	1
Mississippi.....	9	Philippine Islands.....	2
Missouri.....	8	Puerto Rico.....	1
Montana.....	5	Siam.....	1
Nebraska.....	10		
New Hampshire.....	2	Total.....	823

### GRADUATES OF COLLEGES REGISTERED IN THE LAW SCHOOL

Alabama Polytechnic Institute....	2	Alma College.....	1
Alabama, University of.....	1	American University.....	7
Allegheny College.....	1	Amherst College.....	1



Arkansas College.....	1	Kansas State Teachers College....	2
Arkansas State Teachers College..	1	Kansas, University of.....	2
Arkansas, University of.....	5	Kentucky, University of.....	1
Armour Institute of Technology...	2	Lafayette College.....	2
Austin College.....	1	Lehigh University.....	4
Beloit College.....	1	Lincoln Memorial University.....	1
Berea College.....	1	Maine, University of.....	7
Bowdoin College.....	2	Marquette University.....	1
Brigham Young University.....	2	Maryland, University of.....	14
Bucknell University.....	1	Massachusetts Institute of Tech-	
California, University of.....	4	nology.....	11
Carnegie Institute of Technology..	8	Michigan State College.....	1
Catholic University of America...	3	Michigan, University of.....	5
Chicago, University of.....	3	Middlebury College.....	2
Citadel, The.....	2	Minnesota, University of.....	5
Clarkson College of Technology	1	Mississippi Agricultural and Me-	
Clemson College.....	1	chanical College.....	1
Coe College.....	1	Mississippi College.....	1
College of Charleston.....	2	Montana, University of.....	1
Colorado, University of.....	2	Nebraska, University of.....	4
Columbia University.....	4	Nebraska Wesleyan University...	1
Cornell University.....	11	New Hampshire, University of...	1
Dakota Wesleyan University.....	1	New Mexico, University of.....	2
Dartmouth College.....	7	New York University.....	3
Davidson College.....	1	North Carolina, University of....	3
Davis and Elkins College.....	1	North Dakota, University of.....	1
Delaware, University of.....	5	Northeastern University.....	2
Dickinson College.....	3	Northwestern University.....	2
Drexel Institute.....	1	Norwich University.....	2
Drury College.....	1	Oberlin College.....	2
Duke University.....	1	Ohio Northern University.....	1
Earlham College.....	1	Ohio State University.....	4
Emory University.....	3	Ohio Wesleyan University.....	5
Furman University.....	1	Oklahoma Agricultural and Me-	
Georgetown University.....	7	chanical College.....	1
George Washington University....	126	Oklahoma, University of.....	2
Georgia School of Technology....	3	Olivet College.....	1
Goucher College.....	1	Oregon State Agricultural College.	2
Grinnell College.....	2	Oregon, University of.....	1
Hamilton College.....	1	Otterbein College.....	1
Hampden-Sydney College.....	1	Oxford University (England)....	6
Harvard University.....	9	Parsons College.....	1
Haverford College.....	1	Pennsylvania State College.....	3
Hawaii, University of.....	1	Pennsylvania, University of.....	6
Hillsdale College.....	2	Pittsburgh, University of.....	1
Hobart College.....	1	Polytechnic Institute of Brooklyn.	1
Huntingdon College.....	1	Princeton University.....	6
Idaho, University of.....	4	Purdue University.....	6
Illinois, University of.....	12	Randolph-Macon Woman's College	2
Indiana University.....	1	Rensselaer Polytechnic Institute...	6
Iowa, State University of.....	1	Rose Polytechnic Institute.....	3
John B. Stetson University.....	1	Rutgers University.....	1
Johns Hopkins University.....	5	St. John's College.....	3
Juniata College.....	1	Simmons University.....	1
Kalamazoo College.....	1	Southern California, University of.	1
Kansas State Agricultural College.	2	Stanford University.....	5



# THE GEORGE WASHINGTON UNIVERSITY

1821

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The Junior College

1930

Columbian College (the Senior College)

1821

The Graduate Council

1893

The School of Medicine

1825

The Law School

1865

The School of Engineering

1885

The School of Pharmacy

1906

The School of Education

1907

The School of Government

1928

The Division of Library Science

1928

The Division of Fine Arts

1928

The Division of University and Extension Students

1930

The Summer Sessions

1916

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The University Hospital

1898

**DOES NOT  
CIRCULATE**